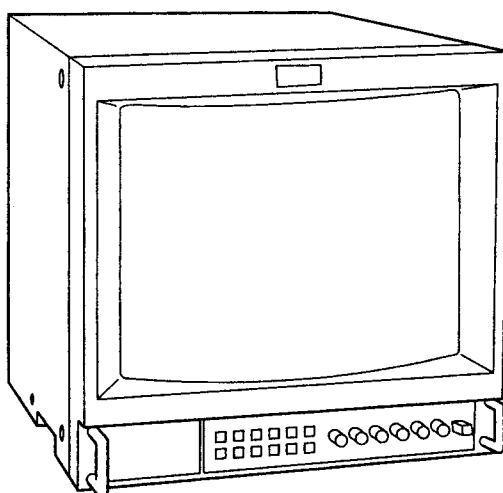


SERVICE MANUAL

| <u>MODEL</u> | <u>DEST.</u> | <u>CHASSIS NO.</u> | <u>MODEL</u> | <u>DEST.</u> | <u>CHASSIS NO.</u> |
|--------------|----------------|--------------------|--------------|--------------|--------------------|
| PVM-14M2U | US Canadian | SCC-G61J-A | PVM-14M4E | AEP | SCC-G62F-A |
| PVM-14M4U | US Canadian | SCC-G61G-A | PVM-14M2A | Australian | SCC-N17A-A |
| PVM-14M2E | AEP | SCC-G62HA | PVM-14M4A | Australian | SCC-N17B-A |



PVM-14M4U/14M4E

Trinitron

PVM-14M2U/14M2E

TRINITRON® COLOR VIDEO MONITOR

SONY®

SPECIFICATIONS

Video signal

For PVM-14M4U/14M4E/20M4U/20M4E:

Color system NTSC, PAL, SECAM, NTSC^{4.43}

Resolution 800 TV lines

Aperture correction 0 dB to +6 dB

Frequency response

LINE 10 MHz \pm 3 dB (Y signal)

RGB 10 MHz \pm 3 dB

Synchronization AFC time constant 1.0 msec.

For PVM-14M2U/14M2E/20M2U/20M2E:

Color system NTSC, PAL, SECAM, NTSC^{4.43}

Resolution 600 TV lines

Aperture correction 0 dB to +6 dB

Frequency response

LINE 10 MHz \pm 3 dB (Y signal)

RGB 10 MHz \pm 3 dB

Synchronization AFC time constant 1.0 msec.

Picture performance

For PVM-14M4U/14M4E/14M2U/14M2E:

Normal scan 7 % over scan of CRT effective screen area

Under scan 5 % underscan of CRT effective screen area

H. linearity Less than 4.0 % (typical)

V. linearity Less than 4.0 % (typical)

Convergence

Central area: 0.4 mm (typical)

Peripheral area: 0.5 mm (typical)

Raster size stability H: 1.0%, V: 1.5%

High voltage regulation

3.5 %

Color temperature D65/D93, selectable
USER (3,200K–10,000K, factory setting is D65)

For PVM-20M4U/20M4E:

Normal scan 7 % over scan of CRT effective screen area

Under scan 5 % underscan of CRT effective screen area

H. linearity Less than 5.0 % (typical)

V. linearity Less than 5.0 % (typical)

Convergence

Central area: 0.5 mm (typical)

Peripheral area: 0.7 mm (typical)

Raster size stability H: 1.0%, V: 1.5%

High voltage regulation

4.0 %

Color temperature D65/D93, selectable
USER (3,200K–10,000K, factory setting is D65)

For PVM-20M2U/20M2E

Normal scan 7 % over scan of CRT effective screen area

Under scan 5 % underscan of CRT effective screen area

H. linearity Less than 5.0 % (typical)

V. linearity Less than 5.0 % (typical)

Convergence

Central area: 0.6 mm (typical)

Peripheral area: 1.0 mm (typical)

Raster size stability H: 1.0%, V: 1.5%

High voltage regulation

4.0 %

Color temperature D65/D93, selectable
USER (3,200K–10,000K, factory setting is D65)

Inputs

For PVM-14M4U/14M4E/20M4U/20M4E:

LINE A/B

VIDEO IN BNC connector (×2), 1Vp-p \pm 6 dB, sync negative

Automatic 75 ohms termination

AUDIO IN Phono jack (×2), –5 dBu^{a)}, more than 47 kilo-ohms

LINE C

Y/C IN 4-pin mini-DIN (×1)

See the pin assignment on page 19.

AUDIO IN Phono jack (×1), –5 dBu^{a)}, more than 47 kilo-ohms

RGB/COMPONENT

R/R-Y, G/Y, B/B-Y IN: BNC connector (×3)

R, G, B channels: 0.7 Vp-p, \pm 6 dB

Sync on green: 0.3 Vp-p, negative

R-Y, B-Y channels: 0.7 Vp-p, \pm 6 dB

Y channel: 0.7 Vp-p, \pm 6 dB

(Standard color bar signal of 75% chrominance)

Automatic 75 ohms termination

AUDIO IN Phono jack (×1), –5 dBu^{a)}, more than 47 kilo-ohms

EXT SYNC IN BNC connector (×1)

4 Vp-p, \pm 6 dB, sync negative

REMOTE 20-pin connector (×1)

See the pin assignment on page 19.

a) 0 dBu = 0.775 Vr.m.s.

For PVM-14M2U/14M2E/20M2U/20M2E:

LINE A/B

| | |
|----------|---|
| VIDEO IN | BNC connector (x2), 1 Vp-p ± 6dB, sync negative Automatic 75 ohms termination |
| AUDIO IN | Phono jack (x2), -5 dBu ^a , more than 47 kilo-ohms |

LINE C

| | |
|----------|--|
| Y/C IN | 4-pin mini-DIN (x1) See the pin assignment on page 19. |
| AUDIO IN | Phono jack (x1), -5 dBu ^a , more than 47 kilo-ohms |

RGB/COMPONENT

| | |
|---------------------|--|
| R/R-Y,G/Y,B/B-Y IN: | BNC connector (x3) R, G, B channels: 0.7 Vp-p ± 6dB Sync on green: 0.3 Vp-p negative R-Y, B-Y channel: 0.7 Vp-p ± 6dB Y channel: 0.7 Vp-p ± 6dB (Standard color bar signal of 75% chrominance) |
|---------------------|--|

| | |
|----------|---|
| AUDIO IN | Automatic 75 ohms termination Phono jack (x1), -5 dBu ^a , more than 47 kilo-ohms |
|----------|---|

| | |
|-------------|--|
| EXT SYNC IN | BNC connector (x1) 4 Vp-p, ±6 dB, sync negative |
|-------------|--|

| | |
|--------|---|
| REMOTE | 20-pin connector (x1) See the pin assignment on page 19. |
|--------|---|

a) 0 dBu = 0.775 Vr.m.s.

Outputs (common to all models)

LINE A/B

| | |
|-----------|---|
| VIDEO OUT | BNC connector (x2) loop-through, Automatic 75 ohms termination |
| AUDIO OUT | Phono jack (x2) loop-through |

LINE C

| | |
|---------|--|
| Y/C OUT | 4-pin mini-DIN (x1) loop-through, Automatic 75 ohms termination |
|---------|--|

| | |
|-----------|------------------------------|
| AUDIO OUT | Phono jack (x1) loop-through |
|-----------|------------------------------|

RGB/COMPONENT

| | |
|----------------------|---|
| R/R-Y,G/Y,B/B-Y OUT: | BNC connector (x3) loop-through Automatic 75 ohms termination |
|----------------------|---|

| | |
|-----------|------------------------------|
| AUDIO OUT | Phono jack (x1) loop-through |
|-----------|------------------------------|

| | |
|--------------|---|
| EXT SYNC OUT | BNC connector (x1) Automatic 75 ohms termination |
|--------------|---|

| | |
|----------------|---------------------|
| Speaker output | Output level: 0.8 W |
|----------------|---------------------|

General

For PVM-14M4U:

| | |
|-----------------------|--|
| CRT | SMPTE-C phosphor |
| Power consumption | 90 Wh (with SDI: 99 Wh) |
| Power requirements | 120 V AC, 50/60Hz |
| Operating temperature | 0 to +35°C (32 to 95°F) |
| Storage temperature | -10 to +40°C (14 to 104°F) |
| Operating humidity | 35 to 85% (no condensation) |
| Storage humidity | 0 to 90% |
| Dimensions (w/h/d) | Approx. 346 × 340 × 431 mm (13 ⁵ / ₈ × 13 ¹ / ₂ × 17 inches) not incl. projecting parts and controls |
| Mass | Approx. 16.7kg (36 lb 13 oz) |
| Accessory supplied | AC power cord (1) AC plug holder (1) Tally label (1) Cable with a 20-pin connector (1) |

For PVM-14M4E:

| | |
|-----------------------|--|
| CRT | EBU phosphor |
| Power consumption | 90 Wh (with SDI: 99 Wh) |
| Power requirements | 100 to 240 V AC, 50/60Hz |
| Operating temperature | 0 to +35°C (32 to 95°F) |
| Storage temperature | -10 to +40°C (14 to 104°F) |
| Operating humidity | 35 to 85% (no condensation) |
| Storage humidity | 0 to 90% |
| Dimensions (w/h/d) | Approx. 346 × 340 × 431 mm (13 ⁵ / ₈ × 13 ¹ / ₂ × 17 inches) not incl. projecting parts and controls |
| Mass | Approx. 16.7kg (36 lb 13 oz) |
| Accessory supplied | AC power cord (1) AC plug holder (1) Tally label (1) Cable with a 20-pin connector (1) |

For PVM-14M2U:

| | |
|-----------------------|--|
| CRT | P-22 phosphor |
| Power consumption | 90 Wh (with SDI: 99 Wh) |
| Power requirements | 120 V AC, 50/60Hz |
| Operating temperature | 0 to +35°C (32 to 95°F) |
| Storage temperature | -10 to +40°C (14 to 104°F) |
| Operating humidity | 35 to 85% (no condensation) |
| Storage humidity | 0 to 90% |
| Dimensions (w/h/d) | Approx. 346 × 340 × 431 mm (13 ⁵ / ₈ × 13 ¹ / ₂ × 17 inches) not incl. projecting parts and controls |
| Mass | Approx. 16.7kg (36 lb 13 oz) |
| Accessory supplied | AC power cord (1) AC plug holder (1) Tally label (1) Cable with a 20-pin connector (1) |

For PVM-14M2E:

CRT P-22 phosphor
Power consumption 90 Wh (with SDI: 99 Wh)
Power requirements 100 to 240 V AC, 50/60Hz
Operating temperature 0 to +35°C (32 to 95°F)
Storage temperature -10 to +40°C (14 to 104°F)
Operating humidity 35 to 85% (no condensation)
Storage humidity 0 to 90%
Dimensions (w/h/d) Approx. 346 × 340 × 431 mm
(13⁵/₈ × 13¹/₂ × 17 inches)
not incl. projecting parts and controls
Mass Approx. 16.7kg (36 lb 13 oz)
Accessory supplied AC power cord (1)
AC plug holder (1)
Tally label (1)
Cable with a 20-pin connector (1)

For PVM-20M4U:

CRT SMPTE-C phosphor
Power consumption 125 Wh (with SDI: 135 Wh)
Power requirements 120 V AC, 50/60Hz
Operating temperature 0 to +35°C (32 to 95°F)
Storage temperature -10 to +40°C (14 to 104°F)
Operating humidity 35 to 85% (no condensation)
Storage humidity 0 to 90%
Dimensions (w/h/d) Approx. 450 × 458 × 503 mm
(17³/₄ × 18¹/₈ × 19⁷/₈ inches)
not incl. projecting parts and controls
Mass Approx. 30.0 kg (66 lb 2 oz)
Accessory supplied AC power cord (1)
AC plug holder (1)
Tally label (1)
Cable with a 20-pin connector (1)

For PVM-20M4E:

CRT EBU phosphor
Power consumption 130 Wh (with SDI: 140 Wh)
Power requirements 100 to 240 V AC, 50/60Hz
Operating temperature 0 to +35°C (32 to 95°F)
Storage temperature -10 to +40°C (14 to 104°F)
Operating humidity 35 to 85% (no condensation)
Storage humidity 0 to 90%
Dimensions (w/h/d) Approx. 450 × 458 × 503 mm
(17³/₄ × 18¹/₈ × 19⁷/₈ inches)
not incl. projecting parts and controls
Mass Approx. 30.0 kg (66 lb 2 oz)
Accessory supplied AC power cord (1)
AC plug holder (1)
Tally label (1)
Cable with a 20-pin connector (1)

For PVM-20M2U:

CRT P-22 phosphor
Power consumption 115 Wh (with SDI: 125 Wh)
Power requirements 120 V AC, 50/60Hz
Operating temperature 0 to +35°C (32 to 95°F)
Storage temperature -10 to +40°C (14 to 104°F)
Operating humidity 35 to 85% (no condensation)
Storage humidity 0 to 90%
Dimensions (w/h/d) Approx. 450 × 458 × 503 mm
(17³/₄ × 18¹/₈ × 19⁷/₈ inches)
not incl. projecting parts and controls
Mass Approx. 30.0 kg (66 lb 2 oz)
Accessory supplied AC power cord (1)
AC plug holder (1)
Tally label (1)
Cable with a 20-pin connector (1)

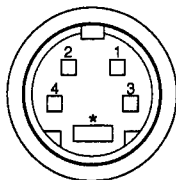
For PVM-20M2E:

CRT P-22 phosphor
Power consumption 120 Wh (with SDI: 130 Wh)
Power requirements 100 to 240 V AC, 50/60Hz
Operating temperature 0 to +35°C (32 to 95°F)
Storage temperature -10 to +40°C (14 to 104°F)
Operating humidity 35 to 85% (no condensation)
Storage humidity 0 to 90%
Dimensions (w/h/d) Approx. 450 × 458 × 503 mm
(17³/₄ × 18¹/₈ × 19⁷/₈ inches)
not incl. projecting parts and controls
Mass Approx. 30.0 kg (66 lb 2 oz)
Accessory supplied AC power cord (1)
AC plug holder (1)
Tally label (1)
Cable with a 20-pin connector (1)

Design and specifications are subject to change
without notice.

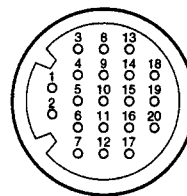
Pin assignment

Y/C IN connector (4-pin mini-DIN)



| Pin No. | Signal | Description |
|---------|-------------------------|--|
| 1 | Y-input | 1 Vp-p, sync negative, 75 ohms |
| 2 | CHROMA subcarrier-input | 300m Vp-p, burst Delay time between Y and C: within 0 ± 100 nsec., 75 ohms |
| 3 | GND for Y-input | GND |
| 4 | GND for CHROMA-input | GND |

REMOTE connector (20-pin)



| Pin No. | Signal | Wire color |
|---------|--------------|-------------------|
| 1 | Blue only | Brown |
| 2 | H/V DELAY | Red |
| 3 | MAIN/SUB* | Orange |
| 4 | EXT SYNC | Yellow |
| 5 | DEGAUSS | Green |
| 6 | R ch ON/OFF* | Blue |
| 7 | TALLY | Purple |
| 8 | LINE B | Grey |
| 9 | GND | White |
| 10 | GND | Black |
| 11 | GND | Pink |
| 12 | GND | Light Blue |
| 13 | LINE A | Spiral Orange |
| 14 | LINE/RGB | Spiral Yellow |
| 15 | GND | Spiral Green |
| 16 | L ch ON/OFF* | Spiral Blue |
| 17 | REMOTE | Spiral Purple |
| 18 | LINE C | Spiral Grey |
| 19 | UNDER SCAN | Spiral Pink |
| 20 | 16:9 | Spiral Light Blue |

(* For digital audio control)

How to connect a remote control unit

Connect No.17 pin to one of the GND pins (No.9 – 12, and 15), then connect pins for the functions you want to use to other GND pins (No.9 – 12, and 15).

How to light the tally lamp

Connect No.7 pin to one of the GND pins (No.9 – 12, and 15).

SAFETY CHECK-OUT (US Model only)

After correcting the original service problem, perform the following safety checks before releasing the set to the customer:

1. Check the area of your repair for unsoldered or poorly-soldered connections. Check the entire board surface for solder splashes and bridges.
2. Check the interboard wiring to ensure that no wires are "pinched" or contact high-wattage resistors.
3. Check that all control knobs, shields, covers, ground straps, and mounting hardware have been replaced. Be absolutely certain that you have replaced all the insulators.
4. Look for unauthorized replacement parts, particularly transistors, that were installed during a previous repair. Point them out to the customer and recommend their replacement.
5. Look for parts which, though functioning, show obvious signs of deterioration. Point them out to the customer and recommend their replacement.
6. Check the line cords for cracks and abrasion. Recommend the replacement of any such line cord to the customer.
7. Check the B+ and HV to see if they are at the values specified. Make sure your instruments are accurate; be suspicious of your HV meter if sets always have low HV.
8. Check the metal trim, metallized knobs, screws, and all other exposed metal parts for AC leakage.
Check leakage as described below.

LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5mA (500 microampers). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufactures' instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2V AC range are suitable. (See Fig. A)

HOW TO FIND A GOOD EARTH GROUND

A cold-water pipe is guaranteed earth ground; the cover-plate retaining screw on most AC outlet boxes is also at earth ground. If the retaining screw is to be used as your earth-ground, verify that it is at ground by measuring the resistance between it and a cold-water pipe with an ohmmeter. The reading should be zero ohms. If a cold-water pipe is not accessible, connect a 60-100 watts trouble light (not a neon lamp) between the hot side of the receptacle and the retaining screw. Try both slots, if necessary, to locate the hot side of the line, the lamp should light at normal brilliance if the screw is at ground potential. (See Fig. B)

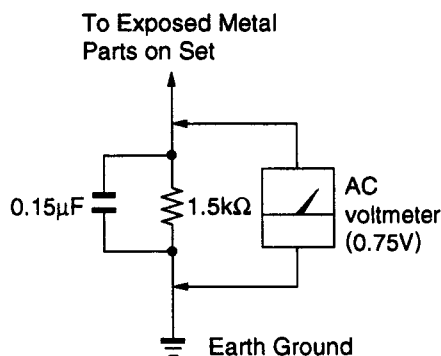


Fig. A. Using an AC voltmeter to check AC leakage.

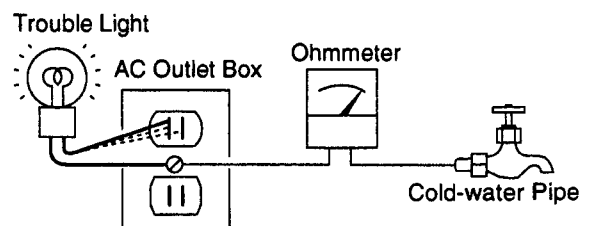


Fig. B. Checking for earth ground.

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(CAUTION)

SHORT CIRCUIT THE ANODE OF THE PICTURE TUBE AND THE ANODE CAP TO THE METAL CHASSIS, CRT SHIELD, OR CARBON PAINTED ON THE CRT, AFTER REMOVING THE ANODE.

WARNING!!

AN ISOLATION TRANSFORMER SHOULD BE USED DURING ANY SERVICE TO AVOID POSSIBLE SHOCK HAZARD, BECAUSE OF LIVE CHASSIS.
THE CHASSIS OF THIS RECEIVER IS DIRECTLY CONNECTED TO THE AC POWER LINE.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY SHADING AND MARK Δ ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL FOR SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY. CIRCUIT ADJUSTMENTS THAT ARE CRITICAL FOR SAFE OPERATION ARE IDENTIFIED IN THIS MANUAL. FOLLOW THESE PROCEDURES WHENEVER CRITICAL COMPONENTS ARE REPLACED OR IMPROPER OPERATION IS SUSPECTED.

(ATTENTION)

APRES AVOIR DECONNECTE LE CAP DE L'ANODE, COURT-CIRCUITER L'ANODE DU TUBE CATHODIQUE ET CELUI DE L'ANODE DU CAP AU CHASSIS METALLIQUE DE L'APPAREIL, OU AU COUCHE DE CARBONE PEINTE SUR LE TUBE CATHODIQUE OU AU BLINDAGE DU TUBE CATHODIQUE.

ATTENTION!!

AFIN D'EVITER TOUT RESQUE D'ELECTROCUTION PROVENANT D'UN CHÂSSIS SOUS TENSION, UN TRANSFORMATEUR D'ISOLEMENT DOIT ETRE UTILISÉ LORS DE TOUT DÉPANNAGE. LE CHÂSSIS DE CE RÉCEPTEUR EST DIRECTEMENT RACCORDÉ À L'ALIMENTATION SECTEUR.

ATTENTION AUX COMPOSANTS RELATIFS À LA SÉCURITÉ!!

LES COMPOSANTS IDENTIFIÉS PAR UNE TRAME ET PAR UNE MARQUE Δ SUR LES SCHÉMAS DE PRINCIPE, LES VUES EXPLOSÉES ET LES LISTES DE PIÈCES SONT D'UNE IMPORTANCE CRITIQUE POUR LA SÉCURITÉ DU FONCTIONNEMENT. NE LES REMPLACER QUE PAR DES COMPOSANTS SONY DONT LE NUMÉRO DE PIÈCE EST INDIQUÉ DANS LE PRÉSENT MANUEL OU DANS DES SUPPLÉMENTS PUBLIÉS PAR SONY. LES RÉGLAGES DE CIRCUIT DONT L'IMPORTANCE EST CRITIQUE POUR LA SÉCURITÉ DU FONCTIONNEMENT SONT IDENTIFIÉS DANS LE PRÉSENT MANUEL. SUIVRE CES PROCÉDURES LORS DE CHAQUE REMPLACEMENT DE COMPOSANTS CRITIQUES, OU LORSQU'UN MAUVAIS FONCTIONNEMENT EST SUSPECTÉ.

SECTION 1 GENERAL

The operating instructions mentioned here are partial abstracts from the Operating Instruction Manual. The page numbers of the Operating Instruction Manual remain as in the manual.

Features

Picture

HR (High Resolution) Trinitron™ picture tube for PVM-14M4U/14M4E/20M4U/20M4E
HR Trinitron tube provides a high resolution picture. Horizontal resolution is more than 800 TV lines at the center of the picture.

Trinitron™ picture tube for PVM-14M2U/14M2E/20M2U/20M2E
Trinitron tube provides a high resolution picture. Horizontal resolution is more than 600 TV lines at the center of the picture.

Comb filter
When NTSC video signals are received, a comb filter activates to make more accurate Y/C separation. This contributes to less of a decrease in resolution, cross color and cross luminance phenomena.

Beam current feedback circuit
The built-in beam current feedback circuit assures stable white balance.

Four color system available
The monitor can display NTSC, PAL, SECAM and NTSC-L signals. The appropriate color system is selected automatically.

Blue only mode

In the blue only mode, an apparent monochrome display is obtained with all three cathodes driven with a blue signal. This facilitates color saturation and phase adjustments and observation of VCR noise.

Input

Analog RGB/component input connectors
Analog RGB or component (Y, R-Y and B-Y) signals from video equipment can be input through these connectors.

Y/C input connectors
The video signal, split into the chrominance signal (C) and the luminance signal (Y), can be input through this connector, eliminating the interference between the two signals, which tends to occur in a composite video signal, ensuring video quality.

External sync input
When the EXT SYNC selector is in the on position, the monitor can be operated on the sync signal supplied from an external sync generator.

Automatic termination (connector with -V- mark only)
The input connector is terminated at 75 ohms inside when no cable is connected to the loop-through output connector. When a cable is connected to an output connector, the 75-ohm termination is automatically released.

Functions

Underscan mode
The signal normally scanned outside of the screen can be monitored in the underscan mode.

NOTE
When the monitor is in the underscan mode, the dark RGB scanning lines may appear on the top edge of the screen. These are caused by an internal test signal, rather than the input signal.

Horizontal/vertical delay mode
The horizontal and vertical sync signals can be checked simultaneously in the H/V delay mode.

Auto/manual degaussing
Degaussing of the screen can be performed automatically when the power is turned on, or manually by pressing the DEGAUSS button.

On-screen menus
You can set color temperature, CHROMA SET UP, and other settings by using the on-screen menus.

Five menu languages

You can select the menu language from among five languages on the menu.

EIA standard 19-inch rack mounting
By using an MB-502B mounting bracket (for a 14-inch monitor, not supplied) or SLR-103A slide rail (for a 20-inch monitor, not supplied), the monitor can be mounted in an EIA standard 19-inch rack. For details on mounting, refer to the instruction manuals supplied with the mounting bracket kit or slide rail kit.

SDI (Serial Digital Interface) Kit
By using the following optional SDI Kits, the monitor can display SMPTE 259M 4:2:2 serial digital signal from a digital VCR: (ex. Sony 4:2:2 VCR)
– BKM-101C: Component SDI Kit (for video)
– BKM-102: Component SDI Kit (for audio)

NOTE

When the serial number of the BKM-101C you want to connect is less than 2,010,000, an optional connecting harness (part no. 1-900-230-35) will be required.

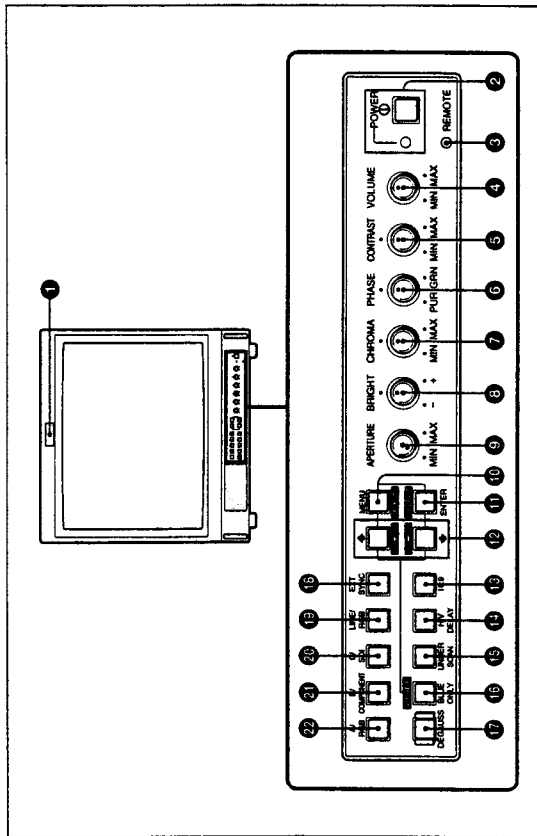
Serial Remote Interface Kit

By using the optional BKM-103 Serial Remote Interface Kit, the monitor can be controlled from personal computers via the RS-422A serial interface.

- 1) "Trinitron" is a registered trademark of Sony Corporation.
- 2) The NTSC-L system refers to an NTSC color system in which the subcarrier frequency is modified to 4.43MHz. When an NTSC recorded video program is played back with a Trident (PAL/SECAM/NTSC-L) VTR, the NTSC-L signal is output.

Location and Function of Parts and Controls

Front



1 Tally lamp
Lights up when the video camera connected to this monitor is selected, indicating that the picture is being recorded.

For details on how to light the tally lamp, see page 19.

2 POWER switch and indicator
Depress to turn on the monitor. The indicator will light green.

3 REMOTE indicator
Lights up when you select ON on the USER PRESET menu (see page 13), or when you connect a supplied cable to the REMOTE connector. The controls on the front panel do not work when this indicator lights up. For details on how to connect the cable, see page 19.

4 VOLUME control
Turn this control clockwise or counterclockwise to obtain the desired volume.

5 CONTRAST control
Turn this control clockwise to make the contrast higher or counterclockwise to make it lower.

6 PHASE control
This control is effective only for the NTSC and NTSC-M color systems. Turn it clockwise to make the skin tones greenish or counterclockwise to make them purplish.

7 CHROMA control
Turn this control clockwise to increase the color intensity or counterclockwise to decrease it.

8 BRIGHT (brightness) control
Turn this control clockwise to increase the brightness or counterclockwise to decrease it.

9 APERTURE control
Turn this control clockwise to increase sharpness or counterclockwise to decrease sharpness.

Menu

The PHASE (6), CHROMA (7) and APERTURE (9) controls have no effect on the pictures of RGB signals.

10 MENU (EXIT) button
Press this button to display the main menu. When a menu is on the display, you can return to the previous menu by pressing this button.

11 ENTER (SELECT) button
Press the button to confirm a selected item on the menu.

12 (+) / (-) buttons
Press the buttons to move the cursor (►) or adjust selected item on the menu.

13 16:9 selector
Press this selector (light on) to monitor the signals of 16:9 picture.

14 HV DELAY selector
Press this selector (light on) to observe the horizontal and vertical sync signals at the same time. The horizontal sync signal is displayed in the left quarter of the screen, the vertical sync signal is displayed near the center of the screen.

15 UNDER SCAN selector
Press this selector (light on) for underscanning. The display size is reduced by approximately 5% so that four corners of the raster are visible.

16 BLUE ONLY selector
RESET button
As the BLUE ONLY selector, press this selector (light on) to eliminate the red and green signals. Only blue signal is displayed as an apparent monochrome picture on the screen. This facilitates "chroma" and "phase" adjustments and observation of VCR noise.
("Phase" adjustment is effective only for the NTSC signals.)
As the RESET button, you can reset the menu settings by pressing this button when a menu is on the display.

17 DEGAUSS button
Press this button momentarily. The screen will be demagnetized. Wait for 10 minutes or more before using this button again.

18 EXT SYNC (external sync) selector
Set this selector to the off position (light off) to operate the monitor on the sync signal from the displayed video signal.
Set this selector to the on position (light on) to operate the monitor on an external sync signal through the EXT SYNC connector.

19 LINE/RGB input selector
Press this selector to select the input to be monitored.
Set this selector to the off position (light off) to monitor the signal through the LINE A, LINE B or LINE C connectors.
Set this selector to the on position (light on) to monitor the signal through the RGB/COMPONENT connectors.

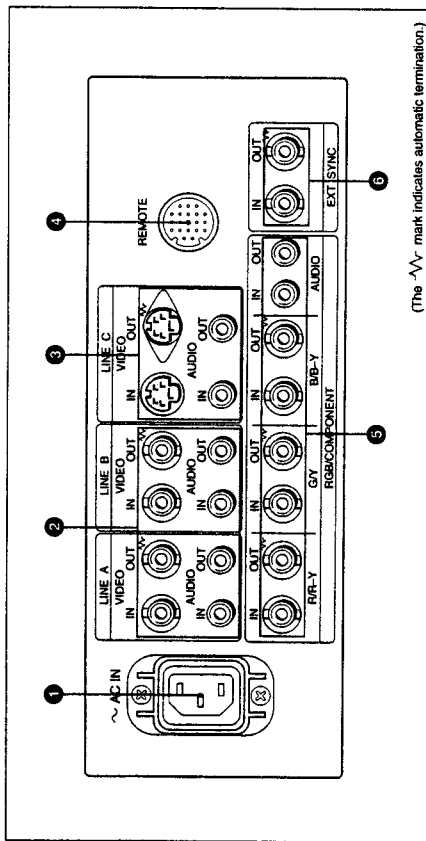
20 C/SDI selector
When the LINE/RGB input selector is set to the LINE position (light off), press this selector (light on) to monitor the signal through the LINE C connectors.
When the LINE/RGB input selector is set to the RGB position (light on), press this selector (light on) to monitor the SDI signal (optional kits are required).

21 B/COMPONENT selector
When the LINE/RGB input selector is set to the LINE position (light off), press this selector (light on) to monitor the signal through the LINE B connectors.
When the LINE/RGB input selector is set to the RGB position (light on), press this selector (light on) to monitor the component signal through the RGB/COMPONENT connectors.

22 A/RGB selector
When the LINE/RGB input selector is set to the LINE position (light off), press this selector (light on) to monitor the signal through the LINE A connectors.
When the LINE/RGB input selector is set to the RGB position (light on), press this selector (light on) to monitor the RGB signal through the RGB/COMPONENT connectors.

Location and Function of Parts and Controls

Rear Panel



- 1 AC IN socket**
Connect the supplied AC power cord to this socket and to a wall outlet.
- 2 LINE A, LINE B connectors**
Two groups (A and B) of line input connectors for the composite video and audio signals and their loop-through output connectors.
To monitor the input signal through these connectors, set the LINE/RGB selector to the LINE position (light off) and press the A/RGB or B/COMPONENT selector (light on).
- VIDEO IN (BNC)**
Connect to the video output of video equipment, such as a VCR or a color video camera.
For a loop-through connection, connect to the video output of another monitor.
- VIDEO OUT (BNC)**
Loop-through output of the VIDEO IN connector.
Connect to the video input of a VCR or another monitor.
When the cable is connected to this connector, the 75-ohm termination of the input is automatically released, and the signal input to the VIDEO IN connector is output from this connector.
- 3 LINE C connectors**
Y/C IN (4-pin mini-DIN)
Connect to the Y/C separate output of a video camera, VCR or other video equipment.
For a loop-through connection, connect to the Y/C separate output of a VCR or another monitor.
- Y/C OUT (4-pin mini-DIN)**
Loop-through output of the Y/C IN connector.
Connect to the Y/C separate input of a VCR or another monitor.
When the cable is connected to this connector, the 75-ohm termination of the input is automatically released, and the signal input to the Y/C IN connector is output from this connector.
- 4 AUDIO IN (phono jack)**
Connect to the audio output of a VCR or to a microphone via a suitable microphone amplifier.
For a loop-through connection, connect to the audio output of another monitor.
- AUDIO OUT (phono jack)**
Loop-through output of the AUDIO IN connector.
Connect to the audio input of a VCR or another monitor.
- 5 LINE C connectors**
Y/C IN (4-pin mini-DIN)
Connect to the Y/C separate output of a video camera, VCR or other video equipment.
For a loop-through connection, connect to the Y/C separate output of a VCR or another monitor.
- Y/C OUT (4-pin mini-DIN)**
Loop-through output of the Y/C IN connector.
Connect to the Y/C separate input of a VCR or another monitor.
When the cable is connected to this connector, the 75-ohm termination of the input is automatically released, and the signal input to the Y/C IN connector is output from this connector.
- 6 EXT SYNC (external sync) connectors**
Press the EXT SYNC selector (light on) to use the sync signal through this connector.
- IN (BNC)**
When this monitor operates on an external sync signal, connect the reference signal from a sync generator to this connector.
- OUT (BNC)**
Loop-through output of the IN connector. Connect to the external sync input of video equipment to be synchronized with this monitor.
When the cable is connected to this connector, the 75-ohm termination of the input is automatically released, and the signal input to the IN connector is output from this connector.

AUDIO IN (phono jack)
Connect to the audio output of a VCR or a microphone (via a suitable microphone amplifier).

AUDIO OUT (phono jack)
Loop-through output of the AUDIO IN connector.
Connect to the audio input of a VCR or another monitor.

3 REMOTE connector (20-pin)
Connect to the tally output of a control console, special-effect generator, etc. The tally lamp on the front panel will be turned on and off by the connected equipment. This connector can also be used for connecting a remote control unit.
For details on the pin assignment of this connector, see page 19.

5 RGB/COMPONENT connectors
RGB signal or component signal input connectors and their loop-through output connectors.
To monitor the input signal through these connectors, set the LINE/RGB selector to the RGB position (light on), and press the A/RGB or B/COMPONENT selector (light on).

R/R-Y IN, G/Y IN, B/B-Y IN (BNC)
When the EXT SYNC selector is set to the off position (light off), the monitor operates on the sync signal from the G/Y channel.

To monitor the RGB signal
Connect to the analog RGB signal outputs of a video camera, etc.

To monitor the component signal
Connect to the R-Y/Y/B-Y component signal outputs of a Sony Betacam video camera, etc.

R/R-Y OUT, G/Y OUT, B/B-Y OUT (BNC)
Loop-through outputs of the R/R-Y IN, G/Y IN, B/B-Y IN connectors.
When the cables are connected to these connectors, the 75-ohm termination of the inputs is automatically released, and the signal inputs to the R/R-Y IN, G/Y IN, B/B-Y IN connectors are output from these connectors.

To output the RGB signal
Connect to the analog RGB signal inputs of a video printer or another monitor.

To output the component signal
Connect to the R-Y/Y/B-Y component signal inputs of a Betacam video recorder, etc.

AUDIO IN (phono jack)
Connect to the audio output of video equipment when the analog RGB or component signal is input.

AUDIO OUT (phono jack)
Loop-through outputs of the AUDIO IN connector.

6 EXT SYNC (external sync) connectors
Press the EXT SYNC selector (light on) to use the sync signal through this connector.

IN (BNC)
When this monitor operates on an external sync signal, connect the reference signal from a sync generator to this connector.

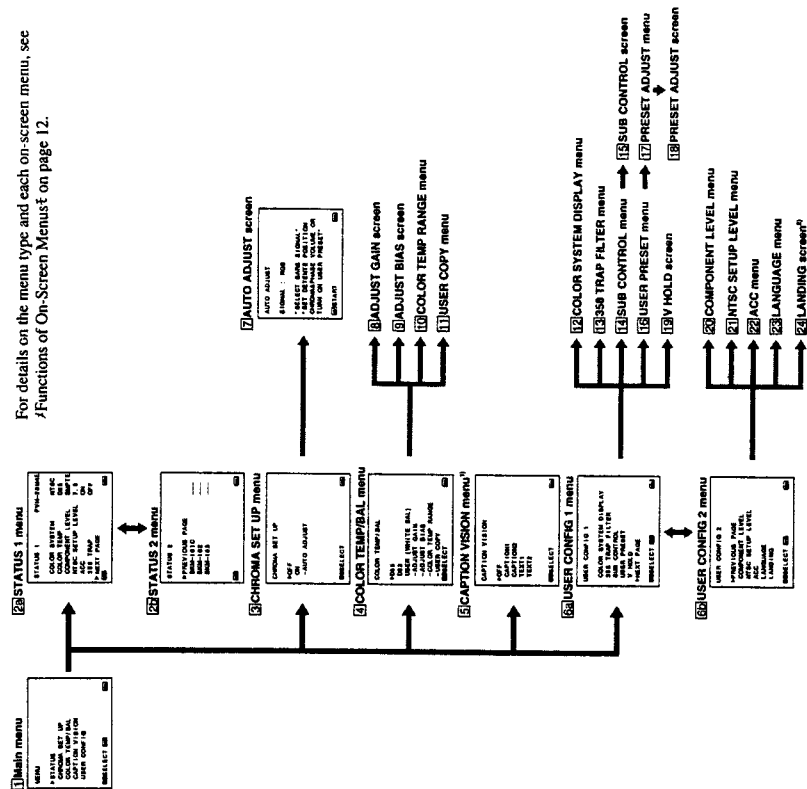
OUT (BNC)
Loop-through output of the IN connector. Connect to the external sync input of video equipment to be synchronized with this monitor.
When the cable is connected to this connector, the 75-ohm termination of the input is automatically released, and the signal input to the IN connector is output from this connector.

Using On-Screen Menus

You can make various settings and adjustments of the monitor using the on-screen menus.

On-Screen Menu Configuration

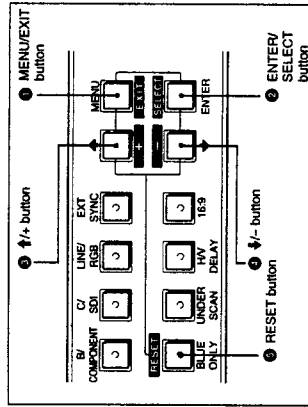
On-screen menu tree-chart



Operation through On-Screen Menus

Menu operation buttons

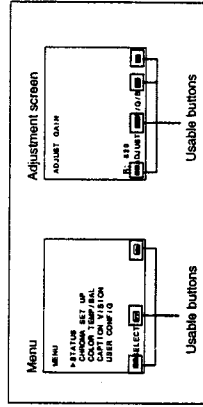
There are five menu operation buttons on the front panel of the monitor.



The following table shows how these five buttons function when using the menus.

| Button | To adjust menu item |
|-----------------|---|
| 1. MENU/EXIT | return to the previous menu return to the previous menu |
| 2. ENTER/SELECT | select an adjustment item |
| 3. +/- | move the cursor (up/down) to increase/decrease selected value |
| 4. +/- | move the cursor (up/down) to increase/decrease selected value |
| 5. RESET | reset current settings to the factory setting |

The buttons that can be used on the menus and adjustment screens are displayed at the bottom of the screen. You can perform menu operation using the displayed buttons.



Display of the usable menu operation buttons

Operating procedures

To display the menu, follow this procedure.

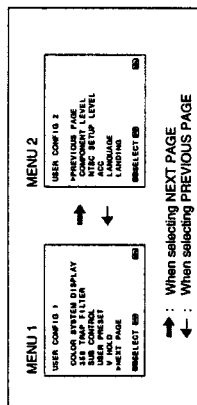
- 1 Press the MENU/EXIT (1) button.
MENU (1) : main menu appears.
- 2 Move the cursor (up/down) to the desired setting menu by pressing the +/- or +/- (3) button.
- 3 Press the ENTER/SELECT (2) button.
The setting menu selected in step 2 appears.
- 4 Move the cursor (up/down) to the desired item by pressing the +/- or +/- (3) button.
- 5 Press the ENTER/SELECT (2) button.
The adjustment screen or setting menu selected in step 4 appears.

For detailed information of menus, see Functions of On-Screen Menus on page 12.

- 1) 5) CAPTION VISION menu is provided with PVM-14M4U/14M2U/20M4U/20M2U only.
- 2) 24) LANDING screen is provided with PVM-20M4U/20M4E only.

Using On-Screen Menus

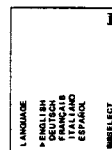
To display the next (or previous) page of the menus
Select NEXT PAGE on the menu to display the next page and PREVIOUS PAGE on the menu to display the previous page.



To close the menu (to return to the regular screen)

Each time you press the MENU/EXIT (F) button, the on-screen menu returns to the one previously displayed. Press the MENU/EXIT (F) button repeatedly until the regular screen appears.

For PVM-14M4E/14M2E/20M4E/20M2E:
For the first time when the monitor is turned on, the LANGUAGE menu (23) will appear on the screen. So, select the language you want to use.



- 1 Move the cursor (▶) to the desired language by pressing the ◀ or ▶ (4, 5) button.
- 2 Press the MENU/EXIT (F) button.

Note

Unless you press the MENU/EXIT (F) button in the procedure above, the LANGUAGE menu will always appear whenever you turn on the monitor.

Functions of On-Screen Menus

There are four types of on-screen menus.

- Main menu**
You can enter another menu such as status menu or setting menu.
- Status menu**
You can confirm the current settings.
- Setting menu**
You can select an item or enter an adjustment screen on this menu by using the ◀/▶, ▲/▼ and ENTER/SELECT buttons.
- Adjustment screen**
You can make adjustments on this screen. The adjustments you made remain unchanged until next change even if you turn off the power.

() indicates the factory setting.

1 Main menu
Select another menu and press ENTER/SELECT to go to the menu.

2a STATUS 1 menu
Shows the current settings.

2b STATUS 2 menu
Shows what optional kit is installed in the monitor.

3 CHROMA SET UP menu
Select ON on this menu to activate "chroma" and "phase" (NTSC signal only) adjustments done on the AUTO ADJUST screen (7).

4 COLOR TEMP/BAL menu
Select the color temperature from among D65, D93 and USER. USER is set to D65 as the factory setting. You can adjust or change the color temperature in USER mode (a measuring instrument is required).

5 CAPTION VISION menu
This menu is provided only for PVM-14M4U/14M2U/20M4U/20M2U.

The monitor can display the signal with Caption Vision. To display it, select the caption type in this menu.

6a USER CONFIG 1 menu
Select an item to adjust on the menus and screens (12 through 19). To go to the USER CONFIG 2 menu, select NEXT PAGE.

6b USER CONFIG 2 menu
Select an item to adjust on the menus and screens (20 through 24). To go to the USER CONFIG 1 menu, select PREVIOUS PAGE.

7 AUTO ADJUST screen
Select the color bar signal (full, SMPTE, EIA) and press ENTER/SELECT to start automatic "chroma" and "phase" (NTSC signal only) adjustments. To activate these adjustments, select ON on the CHROMA SET UP menu (3).

8 ADJUST GAIN screen
Adjust GAIN in USER mode.

9 ADJUST BIAS screen
Adjust BIAS in USER mode.

10 COLOR TEMP RANGE menu
Select the color temperature range in USER mode. [5000K-10000K]

11 USER COPY menu
Store the factory setting of D65 or D93 as the value for USER mode.

12 COLOR SYSTEM DISPLAY menu
Select the color system type. When AUTO is selected, the color system type being used appears on the screen each time you change the signal input. [AUTO]

13 358 TRAP FILTER menu
Color spill or color noise may be eliminated if you select ON (NTSC signal only). Normally select OFF. [OFF]

14 SUB CONTROL menu
Select an item (CONTRAST, BRIGHT, CHROMA and PHASE controls on the front panel) to finely adjust on the SUB CONTROL screen (15).

15 SUB CONTROL screen
Finely adjust the selected item on the SUB CONTROL menu (14). Each control (CONTRAST, BRIGHT, CHROMA and PHASE control) has a click position at the center of its adjustment range. You can adjust the setting of the click position with this feature.

16 USER PRESET menu
If you select ON on this menu, the REMOTE indicator lights up and the controls on the front panel do not work. The monitor operates with the user preset settings. To adjust the user preset settings, select the PRESET ADJUST menu (17).

17 PRESET ADJUST menu
You can preset the BRIGHT, CHROMA, PHASE, CONTRAST, VOLUME, and APERTURE controls to a desired level and can use these settings by selecting ON on the USER PRESET menu (16).

18 PRESET ADJUST screen
Adjust the selected item (BRIGHT, CHROMA, PHASE, CONTRAST, VOLUME, and APERTURE control) on the PRESET ADJUST menu (17).

19 V HOLD screen
Adjust the vertical hold if the picture rolls vertically. When you cannot read the display, select the input that is not connected.

20 COMPONENT LEVEL menu
Select the component level from among three modes. N10/SMPTE for 100/0/100/0 signal
BETA 7.5 for 100/7.5/75/0 signal
BETA 0 for 100/0/75/0 signal
For PVM-14M4U/14M2U/20M4U/20M2U [BETA 7.5]
For PVM-14M4E/14M2E/20M4E/20M2E [N10/SMPTE]

Using On-Screen Menus

[7.5] NTSC SETUP LEVEL menu

Select the NTSC setup level from two modes.
The 7.5 setup level is mainly used in north America.
The 0 setup level is mainly used in Europe.
For PVM-14M4U/14M2U/20M4U/20M2U [7.5]
For PVM-14M4E/14M2E/20M4E/20M2E [0]

[00] ACC menu

Set ACC (Auto Color Control) circuit on or off. When the fine adjustment is necessary, select OFF on the ACC menu.
Normally select ON. [ON]

[ENGLISH] LANGUAGE menu

You can select the menu language from among five languages (English, German, French, Italian, Spanish). [ENGLISH]

[LANDING] LANDING screen

This menu is provided only for PVM-20M4U/20M4E. If the color is not uniform even after you press the DEGAUSS button, you can adjust the landing so as to obtain color uniformity on this screen.
The following two methods are available to adjust the landing.

When the signals of the horizontal lines are input and displayed:

Press the $\blacktriangle/\blacktriangledown$ or $\blacklozenge/\blacktriangleright$ button until the lines are displayed on the screen as horizontally as possible.

When the signals of the white color are input and displayed:

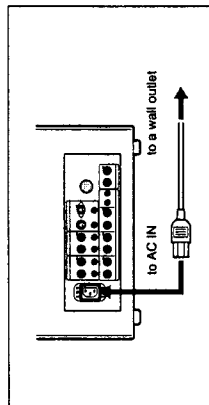
Press the $\blacktriangle/\blacktriangledown$ or $\blacklozenge/\blacktriangleright$ button until the white color on the screen become as uniform as possible.

To reset the setting to standard (00), press the RESET button.

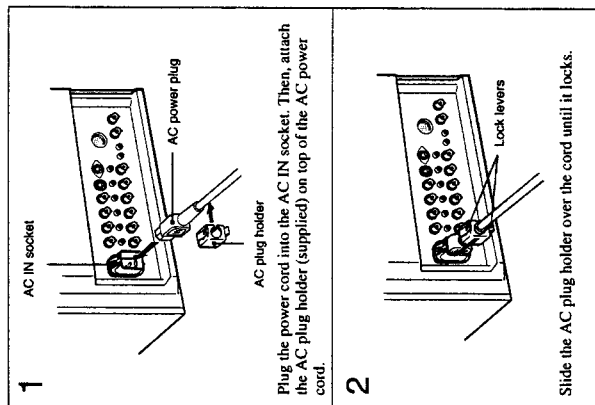
Connections

How to Connect the AC Power Cord

Connect the AC power cord (supplied) to the AC IN socket and to a wall outlet.



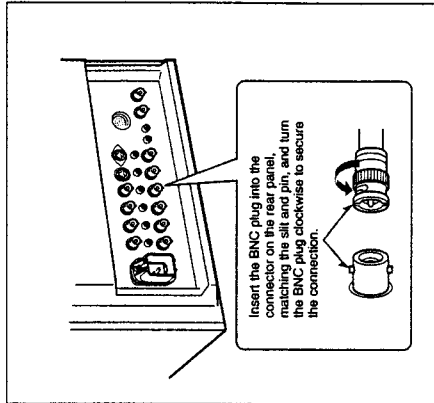
To connect an AC power cord securely with an AC plug holder



To remove the AC power cord
Pull out the AC plug holder while pressing the lock levers.

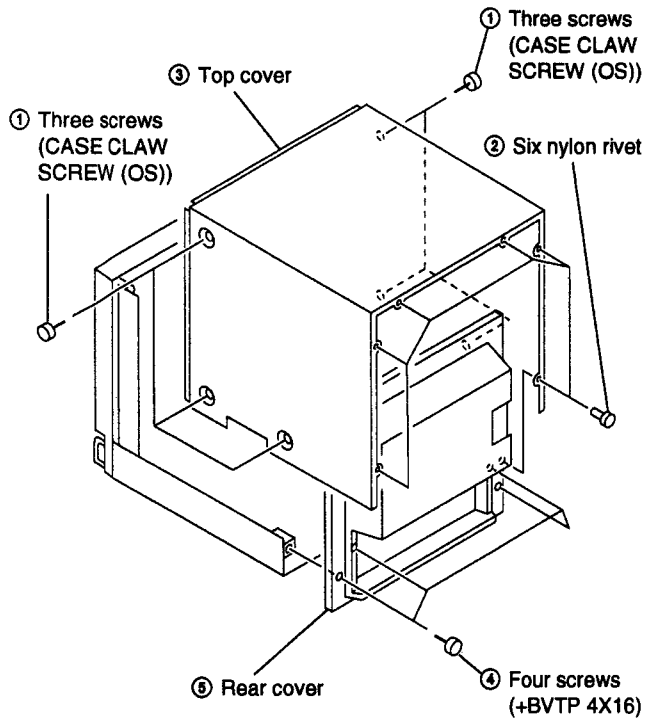
How to Connect a Cable to a BNC Connector

Connect a coaxial cable with the BNC plugs to the BNC connectors on the rear panel as illustrated below.

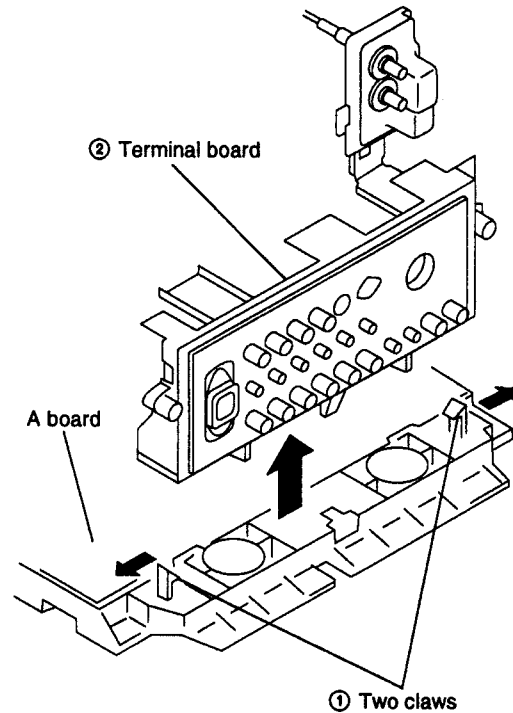


SECTION 2 DISASSEMBLY

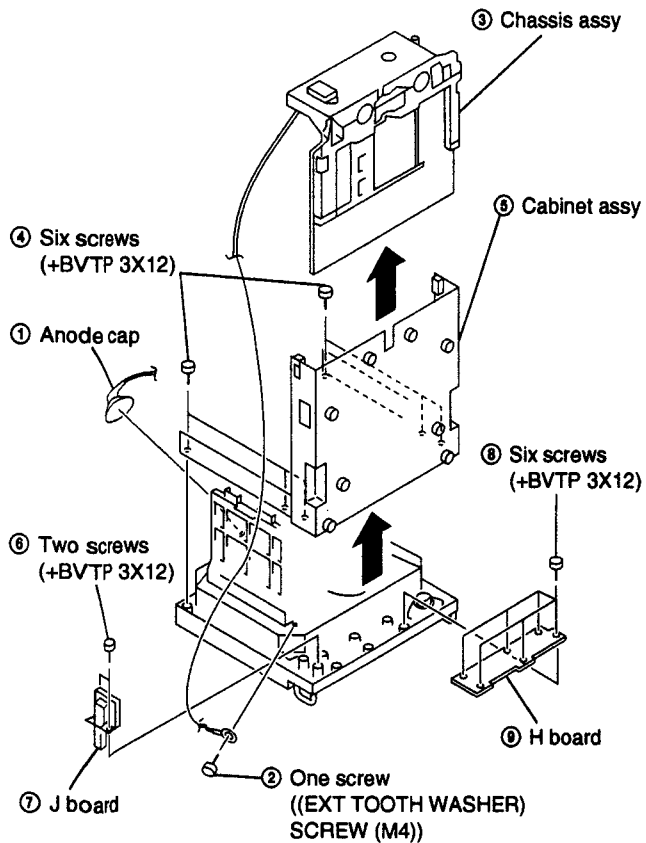
2-1. TOP COVER AND REAR COVER REMOVAL



2-2. TERMINAL BOARD REMOVAL

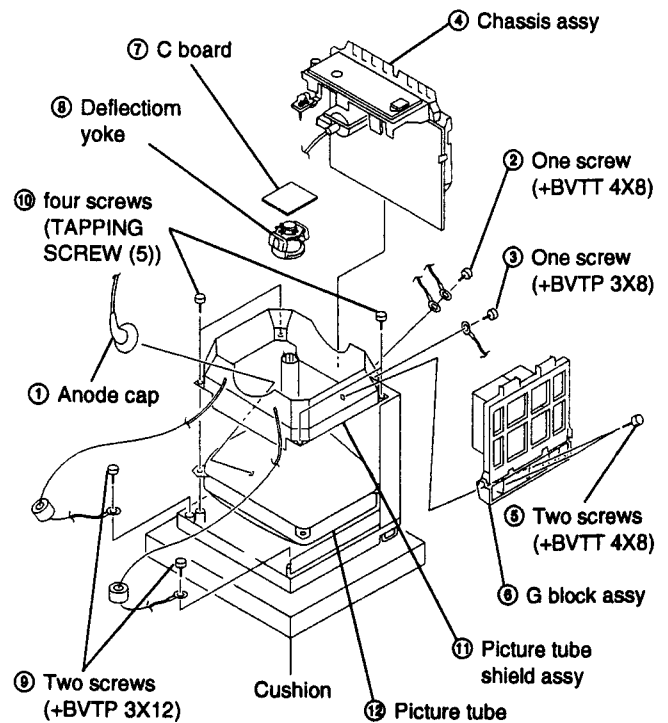


2-3. J AND H BOARDS REMOVAL

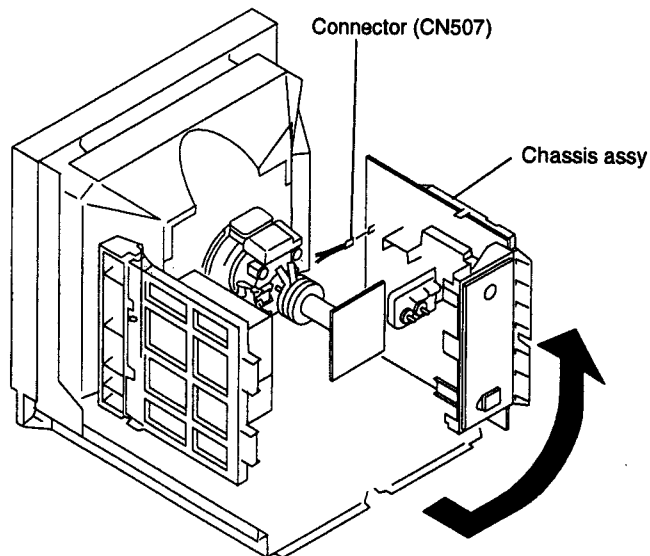


2-4. PICTURE TUBE REMOVAL

When exchange the Picture tube of PVM-14M4 series and if the magnet had stuck on the neck of the Picture tube, peel it.

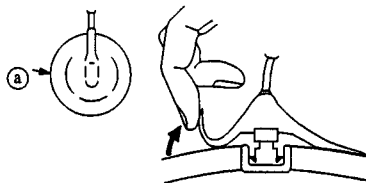


2-5. SERVICE POSITION

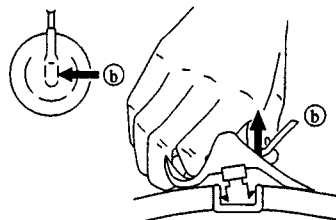


• REMOVAL OF ANODE-CAP

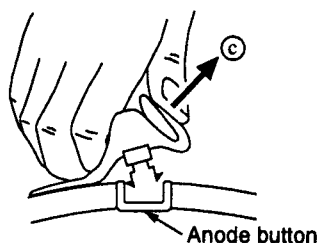
NOTE : Short circuit the anode of the picture tube and the anode cap to the metal chassis, CRT shield or carbon paint on the CRT, after removing the anode.



• REMOVING PROCEDURES



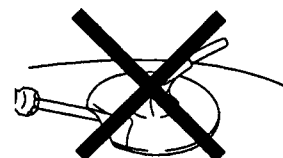
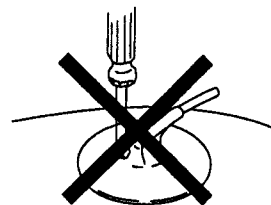
- ① Turn up one side of the rubber cap in the direction indicated by the arrow ㉑.



- ② Using a thumb pull up the rubber cap firmly in the direction indicated by the arrow ㉑.
- ③ When one side of the rubber cap is separated from the anode button, the anode-cap can be removed by turning up the rubber cap and pulling up it in the direction of the arrow ㉒.

• HOW TO HANDLE AN ANODE-CAP

- ① Don't hurt the surface of anode-caps with sharp shaped material!
- ② Don't press the rubber hardly not to hurt inside of anode-caps! A material fitting called as shatter-hook terminal is built in the rubber.
- ③ Don't turn the foot of rubber over hardly! The shatter-hook terminal will stick out or hurt the rubber.



SECTION 3 SET-UP ADJUSTMENTS

3-1. PREPARATIONS (1)

Service Mode

This set is provided with a switch for service on the front panel that can be used to make various adjustments. The operation method of this switch is explained in detail below.

1. Entering the service mode

Simultaneously press the [ENTER] key and the [DEGAUSS] key shown on the display of the menu.

2. Service mode display

| | | | | |
|-----|-----|-----|-----|-----|
| (1) | (5) | (4) | (3) | (6) |
| (2) | | | | |

Range of Service Mode Display

- (1) The service items are largely classified into 16 types displayed by titles.
- (2) The names of the service items or READ/WRITE guidance, etc., are displayed. The names are displayed to the left and the guidance to the right.
- (3) This is the serial number for each of the service items. 1-120.
- (4) This is the adjustment data for the service items that are now stored in the RAM. Adjustments can be made by changing these values, but as long as nothing is written to the ROM the adjustment values will be erased by turning off the power or by reading, so please be careful.
- (5) When the adjustment data that is now displayed is identical with the data in the ROM, the cursor (►) is displayed.
- (6) The present status is displayed.
[*]: Writing to the ROM. Make sure not to turn off the power while this display is on.
[?]: ROM reading error. In this case, an image is output with the standard adjustment data that the microcomputer itself possesses.
[⌋]: Problem in the I2C bus.

3. Finishing the service mode

Simultaneously press the [ENTER] key and the [DEGAUSS] key shown on the display of the menu.

4. Easy ON/OFF of the service mode

If once entering the service mode after having turned on the power, easy ON/OFF is possible by once more pressing the A, B or C switch on the front panel (the LED lights) as long as the power is not turned off or as long as the service mode is not finished.

5. Change of position of the service mode display

If the switch is continuously pressed when turning on in the above easy mode, the display position moves in the V direction. This method is used when the display is outside of the effective screen area.

6. Change of service items

The items are returned with the [MENU] key and forwarded with the [ENTER] key. When a key is continuously pressed, the operation will be repeated.

7. Change of service data

The service data is made larger with the [↑] key and smaller with the [↓] key. When continuously pressing the keys, the operation will be repeated.

8. Reading of service data

When reading data from the ROM to the RAM, press the [B / O] key once and check that the READ display is shown in the guidance, and then press the [B/O] key once again. The adjustment data that is written will return to its previous state, so please be careful.

9. Writing of service data

When writing data from the RAM to the ROM, press the [DEGAUSS] key once and check that the WRITE display shown in the guidance, and then press the [DEGAUSS] key once again. Not only the displayed data will be written, but all data, so please be careful.

10. Carrying out FACTORY RESETING

In case the adjustment data has been destroyed for some reason, and you keep pressing the [B/O] key at the beginning of the above reading, the READ guidance will change to FACTORY RESET guidance in approximately 3 seconds so that the factory resetting can be carried out. By once again pressing the [B/O] key after this, resetting will be carried out ([*] will be displayed as status) and factory resetting will be executed. However, in case the data available at the time of shipment from the factory has been destroyed, or if the ROM has been replaced, etc., or if factory setting mentioned later on has been carried out, factory resetting is executed.

11. Carrying out FACTORY SETTING

Make sure to make possible the above factory resetting by making a copy of the adjustment data when replacing the ROM. If you keep pressing the [DEGAUSS] key at the beginning of the above writing, the WRITE guidance will change into FACTORY RESET guidance after approximately 3 seconds. By once again pressing the [DEGAUSS] key after this, setting will be carried out ([*] will be displayed as status) and the data will be copied. By carrying out this operation, the selection items of the menu and the adjustment values will be reset to the standard conditions, so please be careful. If this operation is carried out once, it cannot be carried out again, but the FACTORY SET FLAG (No. 120) in the service mode can be set to 1.

SERVICE MAP

Table 3-1 Table map (1)

* Signify (The setting is vary with the destination.)
Refer to the "Table 3-1 Table map (2)."

| No. | SERVICE ITEM | | MAX | STD | No. | SERVICE ITEM | | MAX | STD |
|-----|----------------|------------------------|-----|-----|-----|--------------|----------------------------|------|-----|
| 1 | NOR 50 DEF | H FREQUENCY | 255 | 85 | 61 | C/T1 D?? | BIAS <RED> | 1023 | 376 |
| 2 | | VIDEO PHASE | 255 | 139 | 62 | | BIAS <GREEN> | 1023 | 512 |
| 3 | | V SIZE | 255 | 139 | 63 | | BIAS <BLUE> | 1023 | 396 |
| 4 | NOR 60 DEF | H FREQUENCY | 255 | 96 | 64 | | GAIN <RED> | 1023 | 660 |
| 5 | | VIDEO PHASE | 255 | 115 | 65 | | GAIN <GREEN> | 1023 | 620 |
| 6 | | V SIZE | 255 | 137 | 66 | | GAIN <BLUE> | 1023 | 602 |
| 7 | NOR DEF | V CENTER | 255 | 103 | 67 | | B/O <RED> | 255 | 115 |
| 8 | | H SIZE | 255 | 108 | 68 | | B/O <GREEN> | 255 | 115 |
| 9 | | PIN PHASE | 255 | 128 | 69 | C/T2 D?? | 3200K SW | 1 | 0 |
| 10 | | PIN AMP | 255 | 128 | 70 | | BIAS <RED> | 1023 | 256 |
| 11 | | LOWER PIN AMP | 255 | 128 | 71 | | BIAS <GREEN> | 1023 | 512 |
| 12 | | UPPER PIN AMP | 255 | 128 | 72 | | BIAS <BLUE> | 1023 | 512 |
| 13 | | SEXY | 255 | 128 | 73 | | GAIN <RED> | 1023 | 602 |
| 14 | | V LINEARITY | 255 | 120 | 74 | | GAIN <GREEN> | 1023 | 700 |
| 15 | | V BOW | 63 | 32 | 75 | | GAIN <BLUE> | 1023 | 672 |
| 16 | | LOWER BOW | 63 | 32 | 76 | | B/O <RED> | 255 | 95 |
| 17 | | V ANGLE | 63 | 32 | 77 | | B/O <GREEN> | 255 | 108 |
| 18 | U/S DEF | V SIZE <50> | 255 | 100 | 78 | W/B | SUB CON <4 :3,NORMAL> | 255 | 178 |
| 19 | | V SIZE <60> | 255 | 100 | 79 | | SUB CON <4 :3,H/V DELAY> | 255 | 97 |
| 20 | | H SIZE | 255 | 118 | 80 | | SUB CON <16 :9,NORMAL> | 255 | 150 |
| 21 | | PIN PHASE | 255 | 128 | 81 | | SUB CON <16 :9,H/V DELAY> | 255 | 78 |
| 22 | | PIN AMP | 255 | 100 | 82 | | SUB BRIGHT | 255 | 69 |
| 23 | 16 : 9 NOR DEF | V SIZE <50> | 255 | 72 | 83 | | USER B/O <RED> | 255 | 115 |
| 24 | | V SIZE <60> | 255 | 60 | 84 | | USER B/O <GREEN> | 255 | 115 |
| 25 | | PIN PHASE | 255 | 135 | 85 | OTHER | LANDING | 255 | 64 |
| 26 | | PIN AMP | 255 | 90 | 86 | | V HOLD | 255 | 128 |
| 27 | 16 : 9 U/S DEF | V SIZE <50> | 255 | 61 | 87 | | H BLANKING | 255 | 73 |
| 28 | | V SIZE <60> | 255 | 39 | 88 | | V BLANKING <50> | 255 | 82 |
| 29 | | PIN PHASE | 255 | 135 | 89 | | 16 : 9 BLANKING START <50> | 255 | 32 |
| 30 | | PIN AMP | 255 | 65 | 90 | | 16 : 9 BLANKING END <50> | 255 | 176 |
| 31 | COMPONENT | SUB PHASE | 255 | 130 | 91 | | V BLANKING <60> | 255 | 161 |
| 32 | | SUB CHROMA <NORMAL> | 255 | 182 | 92 | | 16 : 9 BLANKING START <50> | 255 | 42 |
| 33 | | SUB CHROMA <SMPTE> | 255 | 170 | 93 | | 16 : 9 BLANKING END <50> | 255 | 226 |
| 34 | | R-Y LEVEL | 255 | 163 | 94 | | H DELAY | 255 | 142 |
| 35 | NTSC | BURST GATE PULSE WIDTH | 255 | 52 | 95 | | V DELAY | 255 | 104 |
| 36 | | CRYSTAL | 255 | 59 | 96 | | HP POSITION | 255 | 145 |
| 37 | | PHASE <NORMAL> | 255 | 80 | 97 | | HP WIDTH <NORMAL> | 255 | 148 |
| 38 | | PHASE <ACC OFF> | 255 | 96 | 98 | | HP WIDTH <H/V DELAY> | 255 | 62 |
| 39 | | B-Y PHASE | 255 | 162 | 99 | SYSTEM | SDI AUDIO | 7 | 5 |
| 40 | | CHROMA <NORMAL> | 255 | 98 | 100 | | 358 TRAP FILTER | 1 | 0 |
| 41 | | CHROMA <ACC OFF> | 255 | 27 | 101 | | ACC | 1 | 0 |
| 42 | | R-Y LEVEL | 255 | 98 | 102 | | CAPTION VISION | 7 | 0 |
| 43 | NTSC 443 | CRYSTAL | 255 | 82 | 103 | | COMPONENT LEVEL | 3 | * |
| 44 | | PHASE <NORMAL> | 255 | 62 | 104 | | NTSC SETUP LEVEL | 1 | * |
| 45 | | PHASE <ACC OFF> | 255 | 64 | 105 | | CHROMA SET UP | 1 | 0 |
| 46 | | B-Y PHASE | 255 | 181 | 106 | | COLOR SYSTEM DISPLAY | 3 | 0 |
| 47 | | CHROMA <NORMAL> | 255 | 104 | 107 | | COLOR TEMPERATURE | 3 | 0 |
| 48 | | CHROMA <ACC OFF> | 255 | 36 | 108 | | USER PRESET | 1 | 0 |
| 49 | | R-Y LEVEL | 255 | 100 | 109 | | LANGUAGE | 7 | 0 |
| 50 | PAL | PHASE <NORMAL> | 255 | 110 | 110 | | RGB SYNC | 1 | 0 |
| 51 | | PHASE <ACC OFF> | 255 | 105 | 111 | | OPTION BOARD | 7 | 0 |
| 52 | | B-Y PHASE | 255 | 122 | 112 | | AGING MODE | 1 | 0 |
| 53 | | CHROMA <NORMAL> | 255 | 109 | 113 | | PAL-M | 1 | 0 |
| 54 | | CHROMA <ACC OFF> | 255 | 41 | 114 | | MODEL | 31 | * |
| 55 | | R-Y LEVEL | 255 | 121 | 115 | | COLOR TEMP DISP 1 | 127 | * |
| 56 | SECAM | CHROMA | 255 | 93 | 116 | | COLOR TEMP DISP 2 | 127 | * |
| 57 | | R-Y LEVEL | 255 | 181 | 117 | | REMOTE ADDRESS | 63 | 0 |
| 58 | | COLOR BALANCE <R-Y> | 255 | 118 | 118 | | RESERVED 1 | 1 | 0 |
| 59 | | COLOR BALANCE <B-Y> | 225 | 135 | 119 | | RESERVED 2 | 2 | 0 |
| 60 | C/T1 D?? | 3200K SW | 1 | 0 | 120 | | FACTORY SET FLAG | 1 | 0 |

Table 3-1 Table map (2)

| Model Name | Component level | NTSC Set-up level | Model | Color temp disp 1 | Color temp disp 2 |
|------------|-----------------|-------------------|-------|-------------------|-------------------|
| PVM-20M4U | 1 | 1 | 0 | 65 | 93 |
| PVM-20M2U | 1 | 1 | 1 | 65 | 93 |
| PVM-20M4J | 2 | 0 | 2 | 93 | 65 |
| PVM-20M4E | 2 | 0 | 3 | 65 | 93 |
| PVM-20M2E | 2 | 0 | 4 | 65 | 93 |
| PVM-14M4U | 1 | 1 | 5 | 65 | 93 |
| PVM-14M2U | 1 | 1 | 6 | 65 | 93 |
| PVM-14M4J | 2 | 0 | 7 | 93 | 65 |
| PVM-14M1J | 2 | 0 | 8 | 93 | 65 |
| PVM-14M4E | 2 | 0 | 9 | 65 | 93 |
| PVM-14M2E | 2 | 0 | 10 | 65 | 93 |
| PVM-20M4A | 2 | 0 | 11 | 65 | 93 |
| PVM-14M4A | 2 | 0 | 12 | 65 | 93 |
| PVM-14M2A | 2 | 0 | 13 | 65 | 93 |
| PVM-14M4B | 1 | 1 | 14 | 65 | 93 |
| BVM-14M4DJ | 2 | 0 | 15 | 93 | 65 |
| BVM-14M4DE | 2 | 0 | 16 | 65 | 93 |
| PVM-20M4T | 2 | 0 | 17 | 93 | 65 |
| PVM-14M4T | 1 | 0 | 18 | 93 | 65 |

3-2. Preparation (2). Initialization

- * Supply composite video or component signals as shown in Table 3-2.

Table 3-2

| Signal | | Details of signal | Standard level P-W |
|--------------------|----------------------|---|-----------------------|
| Composite video | 358NT 443NT | 100% white | 0.714V |
| | | 75% white | 0.536V |
| | PALM PAL SECAM | 100% white | 0.7V |
| | | 75% white | 0.525V |
| Component | BETA0 | 100% white Y | 0.7V |
| | | 75% white Y | 0.525V |
| | | 75%color B-Y, R-Y (P-P for this item only) | 0.7V |
| | SMPTE | 100% white Y | 0.7V |
| | | 75% white Y | 0.525V |
| | | 75%color B-Y, R-Y (P-P for this item only) | 0.525V |
| Voice/sound | | -5dBs | 0.436Vrms |

* Refer to Table 3-3 for groups of models.

Table 3-3

| Group of models | Models | | |
|-----------------|------------------------|-----------|-----------|
| 1 | PVM-14M4U PVM-14M4A | PVM-14M4J | PVM-14M4E |
| 2 | PVM-14M2U | PVM-14M2E | PVM-14M2A |
| 3 | PVM-14M1J | | |
| 4 | PVM-20M4U PVM-20M4A | PVM-20M4J | PVM-20M4E |
| 5 | PVM-20M2U | PVM-20M2E | |

* In this chapter, ☐ indicates the control items in the service mode.

Example: ☐ 60 H-FREQ

* Before turning off the power after adjustment in the service mode, write the adjustment data. When the power is turned off before writing, adjusted data will all be lost.

3-3. Writing model data

1. Write model data on respective models in the service mode at the location of No.114 MODEL in accordance with Table 3-4.

Table 3-4

| Model | Model data |
|-----------|------------|
| PVM-20M4U | 0 |
| PVM-20M2U | 1 |
| PVM-20M4J | 2 |
| PVM-20M4E | 3 |
| PVM-20M2E | 4 |
| PVM-14M4U | 5 |
| PVM-14M2U | 6 |
| PVM-14M4J | 7 |
| PVM-14M1J | 8 |
| PVM-14M4E | 9 |
| PVM-14M2E | 10 |
| PVM-20M4A | 11 |
| PVM-14M4A | 12 |
| PVM-14M2A | 13 |

2. Write the following data in the service mode at the location of No.115 COLOR TEMP DISP 1.
 COLOR TEMP DISP 1
 U/C, AEP ☐ 65
 J ☐ 93
3. Write the following data in the service mode at the location of No.116 COLOR TEMP DISP 2.
 COLOR TEMP DISP 2
 U/C, AEP ☐ 93
 J ☐ 65

- * Standard inspection state
 Unless otherwise specified in this manual, make adjustment under the following conditions:

| | | |
|----------|-----|-------------------------------------|
| APERTURE | MIN | (Turn FLAT fully counterclockwise.) |
| BRIGHT | 50% | (Center click) |
| CHROMA | 50% | (Center click) |
| PHASE | 50% | (Center click) |
| CONTRAST | 80% | (Center click) |
| VOLUME | 50% | |

3-4. Picture output

1. AC input voltage setting

1. Input VIDEO signals and AUDIO signals to respective terminals on the connector panel.
2. Set the sliduck AC voltage as shown in Table 3-5.

Table 3-5

| Group of models | | Voltage |
|--|--|--|
| PVM-14M4J(J) PVM-14M1J(J) | PVM-20M4J(J) | AC 100±3V (Distortion factor:3% max.) |
| PVM-14M4U(U/C) PVM-20M2U(U/C) | PVM-14M2U(U/C) PVM-20M4U(U/C) | AC 120±3V (Same as above) |
| PVM-14M4E(AEP) PVM-14M2A(AUS) PVM-20M4E(AEP) PVM-20M4A(AUS) | PVM-14M2E(AEP) PVM-14M4A(AUS) PVM-20M2E(AEP) | AC 220±3V (Same as above) |

3-5. Landing adjustment

1. CONT ... MAX
BRT ... Conspicuous position
2. Roughly adjust the white balance, G2, and convergence.
3. Switch the rotary SW of the single color switch to change the color into green only.
4. Adjust the purity knob so that the green will come to the center of the screen. Make R and B almost identical. (Fig. 3-1)
5. Switch to B only, R only, and G only and verify each. (Figs.3-1, 3-2, and 3-3)
6. Bring the deflection yoke gradually forward and adjust the deflection yoke so that R and B on both sides of the screen will be green. (Fig.3-2 → Fig. 3-3)
7. If the deflection yoke comes forward too much, the pattern shown in Fig.3-4 will appear. If so, move the deflection yoke backward. (Fig.3-4 → Fig.3-3)
8. Switch the single color switch to B and verify the single color. (Fig.3-6)
9. Switch the single color switch to R and verify the single color. (Fig.3-9)
10. When two colors are mixed, set the mixed color as the standard, and repeat operations 6 and 7.
11. Switch to an all-white signal and check the uniformity.
12. When the deflection yoke position is determined, fasten it with the fixture.

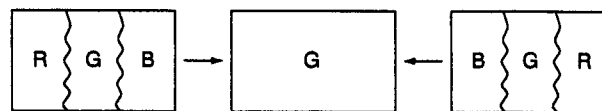
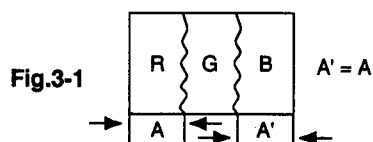


Fig.3-2

Fig.3-3

Fig.3-4

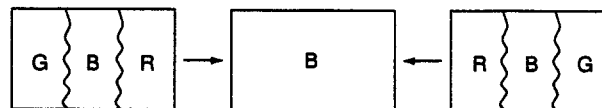


Fig.3-5

Fig.3-6

Fig.3-7

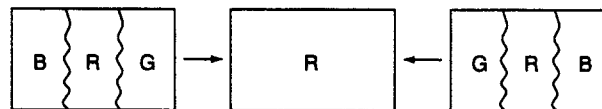


Fig.3-8

Fig.3-9

Fig.3-10

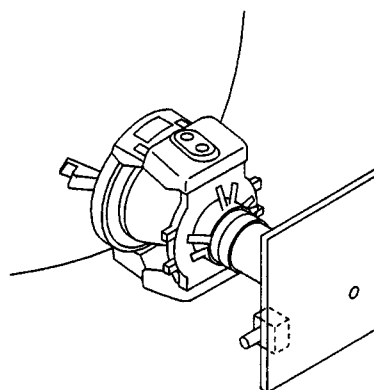


Fig.3-11

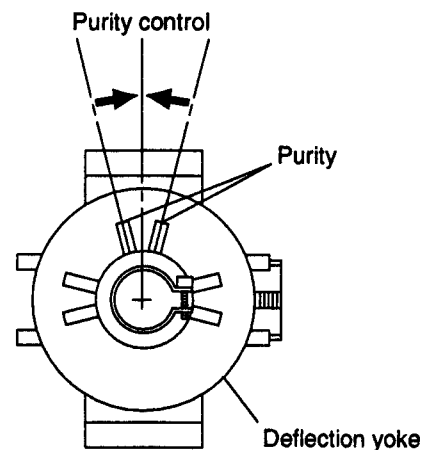


Fig.3-12

Note : Attach NTC magnets for 20M4 to the locations shown in Fig.3-13.

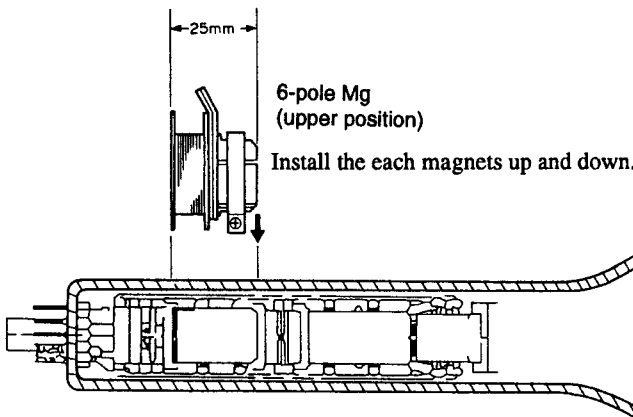


Fig. 3-13

3-6. Convergence adjustment (1)

1. Input a dot pattern signal.
CONT ... Conspicuous position
BRT ... MIN
2. Align the horizontal R, G, and B dots at the center of the screen with the H-START VR.
- * When H-CENT is changed after H-STAT adjustment, readjust H-STAT. (H-STAT will change by means of H-CENT VR.)
3. Align the vertical location of R, G, and B in the center of the screen with the V-STAT Mg. (Fig.3-14, 3-15)
- * After V-STAT adjustment, paint-lock the knob.

V-STAT Mg knob

While keeping the angles A and B equal ($I = I'$), align the vertical convergence.

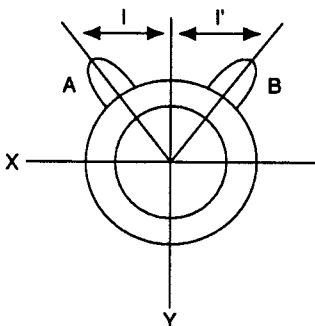


Fig. 3-14 Good example

If the A and B knobs are not symmetrical ($I \neq I'$), the focus may deteriorate, beam striking or other adverse effects may occur.

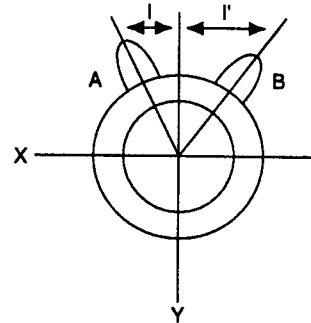


Fig. 3-15 Bad example

4. For HMC, use the BMC Mg to adjust the R and B dots so that they will be symmetrical horizontally with respect to the G dot.

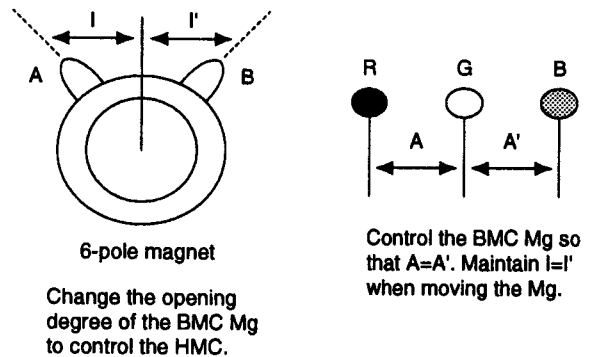


Fig. 3-16

5. For VMC, use the MBC Mg to adjust the R and B dots so that they will be symmetrical vertically with respect to the G dot.

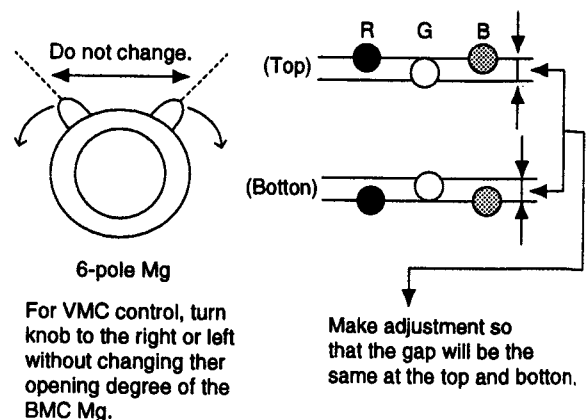


Fig. 3-17

6. Repeat adjustments 2. to 5.

- * The above adjustment may affect the landing, so after adjustment, check the landing again.

7. Paint-lock the knobs after adjustment.

3-7. Deflection yoke neck rotation adjustment

1. If there is nonconvergence on both sides of the X or Y axis of the screen, turn the neck of the deflection yoke in the direction of the arrow to hold the nonconvergence for the entire CRT screen within the tolerance.

- * Applicable only to groups of models 1, 2, 3, and 5.

- (1) Reverse cross misconvergence pattern
- (2) Regular cross misconvergence pattern

Move the deflection yoke downward.

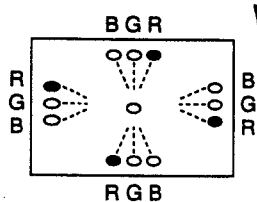


Fig. 3-18

Move the deflection yoke upward.

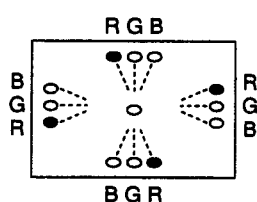


Fig. 3-19

- (3) Pattern of left-sided deflection yoke

Move the deflection yoke to the right when viewed from the CRT screen.

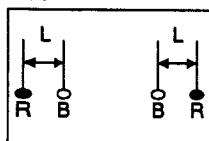


Fig. 3-20

- (4) Pattern of right-sided deflection yoke

Move the deflection yoke to the left when viewed from the CRT screen.

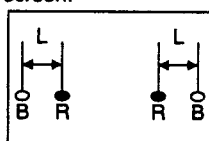


Fig. 3-21

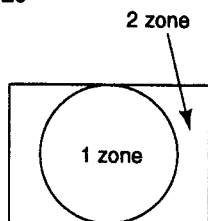
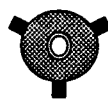


Fig. 3-23

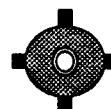
2. Turn the neck of the deflection yoke to align the V pin vertically.

- * Applicable only to group of models 4.

3. Insert the wedge between the deflection yoke and CRT funnel to lock the deflection yoke. (Fig.3-24)



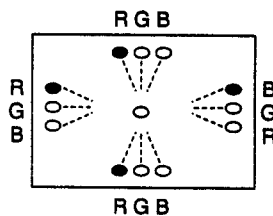
Groups of models 1,2,3, and 5 have been treated.



Group of models 4 have been treated.

Fig. 3-24

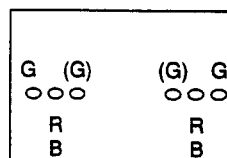
4. The following patterns cannot be corrected by turning the neck. (Figs.3-25, 3-26, and 3-27)



* Gun rotation

The X-axis and Y-axis beams are distorted on both sides.

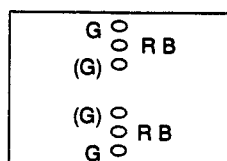
Fig. 3-25



* HCR Large(Small)

The horizontal portion of the G raster is wider(narrower) than that of the RB raster on both sides of the screen.

Fig. 3-26



* VCR Large(Small)

The vertical portion of the G raster is wider(narrower) than that of the RB raster on both sides of the screen.

Fig. 3-27

3-8. Convergence adjustment (2)

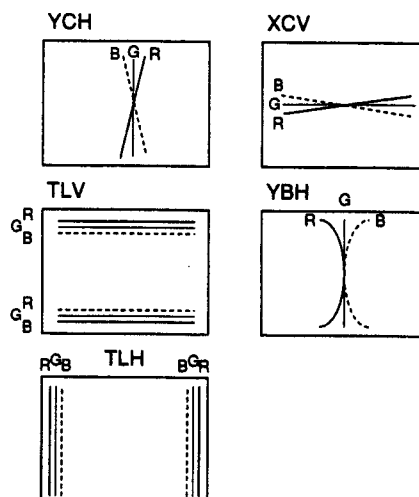


Fig. 3-28 Convergence compensation VR,coil,and compensator

Note : When adjustment is insufficient, use permalloy for perfect adjustment.

1. Group of models 4 (See Table 3-3.)

1. Input a cross-hatch signal.
2. Make adjustment with the TLV, YCH, YBH VR, and XCV coils of the deflection yoke to minimize nonconvergence.
3. When the nonconvergence of the TILT component is included in the horizontal convergence, make adjustment with the TLH compensator. (Fig.3-28)

2. Groups of models 1, 2, and 3 (See Table 3-3.)

1. Input a cross-hatch signal.
2. Make adjustment with the TLV, YCH VR, and XCV coils of the deflection yoke to minimize nonconvergence.
3. When the nonconvergence of the TILT component is included in the horizontal convergence, insert the TLH compensator into the deflection yoke for adjustment. (Fig.3-28)

3. Group of models 5 (See Table 3-3.)

1. Input a cross-hatch signal.
2. Make adjustment with the XCV coil of the deflection yoke to minimize nonconvergence.
3. When the nonconvergence of the TILT component is included in the vertical convergence, insert the TLV compensator into the deflection yoke for adjustment. (Fig.3-28)

3-9. G2 adjustment

1. Input a 525 monoscope signal.
2. Connect the probe of the oscilloscope to TP403 on the A board.
3. Measure the lowest reference pulse of the three.
4. Make adjustment with SCREEN VR so that the left end of the waveform will be $1.35 \text{ V} \pm 0.05 \text{ V}$.

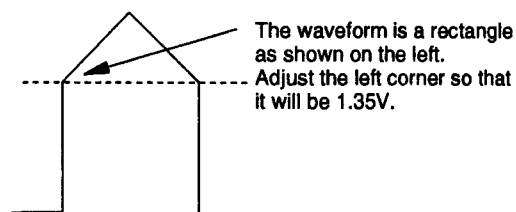
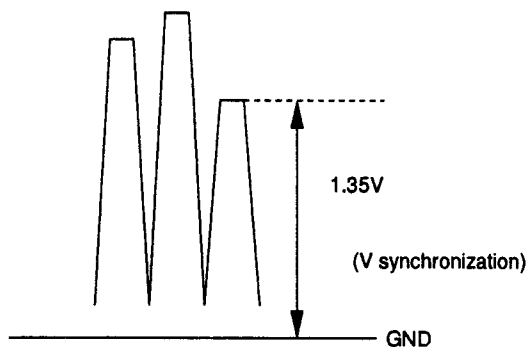


Fig. 3-29

3-10. White balance adjustment

1. Input a 525 monoscope signal. (Input from LINE A or B with no burst.)
2. Set as follows:
CONT: 0%
BRT: 50%
3. Adjust **SUB-BRIGHT** in the service mode so that the 20-tone gray scale will be as follows:
0 and 5 IRE → Cut off
10 IRE → Slight glow
4. Input 525 all-white (COMPOSITE signal without burst).
5. Set CONT VR to 80%.
6. Adjust the all-white luminance so that the screen luminance will be 3 NIT.
7. Press MENU and select COL TEMP/BAL.
8. Select 6500K.
Set **[3200K SW]** to "0" for both 9300K and 6500K.
9. Put the unit into the service mode.
10. Adjust to the standard values with <RED> and <BLUE> of **[CT1 6500K BIAS]** or **[CT2 6500K BIAS]**.
Set cut-off to 3 NIT.

<GREEN>

| Group of models (Table 3-3) | Fix as follows: |
|-----------------------------|-----------------|
| 2, 3, 5 | "400" |
| 1, 4 | "512" |

11. Switch the all-white signal luminance to 100 IRE.
12. Adjust to the standard values with <RED> and <BLUE> of **[CT1 6500K GAIN]** or **[CT2 6500K GAIN]**.
<Green>
Set it to "700."
13. Repeat adjustment (10, 11, and 12) until the adjustment is complete, and then write the adjustment data.
14. Press MENU and select COL TEMP/BAL.
15. Select 9300K.
16. Adjust **[CT2 9300K BIAS]** **[CT2 9300K GAIN]** or **[CT1 9300K BIAS]** **[CT1 9300K GAIN]** in the same manner as adjustments 1013.

BIAS <GREEN>

| Group of models (Table 3-3) | Fix as follows: |
|-----------------------------|-----------------|
| 2, 3, 5 | "400" |
| 1, 4 | "512" |

GAIN <GREEN>

Fix it at "700."

3-11. Blue-only white balance adjustment

1. Turn ON the blue-only of the user controller SW. (To set blue-only.)
2. Input all-white (COMPOSITE signal without burst).
The all-white signal luminance shall be 100 IRE.
CONT: 80%
BRT: 50%
3. Select COL TEMP/BAL.
4. Select 6500K.
5. Adjust to the standard values with **CT1 6500K B/O<RED>** and **CT1 6500K B/O<GREEN>** or **CT2 6500K B/O<RED>** and **CT1 6500K B/O<GREEN>**.
6. Select COL TEMP/BAL.
7. Select 9300K.
8. Adjust to the standard values with **CT2 9300K B/O<RED>** and **CT2 9300K B/O<GREEN>** or **CT1 9300K B/O<RED>** and **CT1 9300K B/O<GREEN>**.
9. Adjust the all-white signal luminance, and check that the white balance is satisfactory when the luminance of the screen is 8NIT.

3-12. SUB BRT adjustment

1. Input a 525 monoscope signal.
2. CONT ... MIN
BRT CENTER (50%)
3. Select **SUB BRIGHT** in the service mode.
4. Adjust **SUB BRIGHT** so that 10 IRE glows slightly and 0 IRE is cut off.

3-13. Focus adjustment

1. PVM-20M4 Series

1. Adjust the H focus (upper side of focus pack) by means of a dot signal.
2. Adjust the V focus (lower side of focus pack) by means of a dot signal.
3. Turn the H focus fully clockwise when viewed from the front by means of a dot signal.
4. Turn the H focus counterclockwise and focus well the dot in the center of the screen. When the dot is well focused, it will be divided into two sections.
5. Turn the H focus VR clockwise (returning direction) so that the dot will be as shown in Fig.3-30. At that time, both ends of the central section of the screen are in the same state.



Fig. 3-30

6. Check that the resolution is more than 800 lines by means of a digital monoscope signal.
7. Check that the magenta ring is un conspicuous by means of an all-white signal.

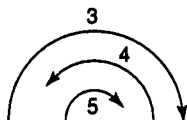


Fig.3-31 Movement of VR when viewed from the front

2. PVM-14M4 Series

1. Adjust the H focus (upper side of focus pack) by means of a dot signal.
2. Adjust the V focus (lower side of focus pack) by means of a dot signal.
3. Turn the H focus fully clockwise when viewed from the front by means of a dot signal.
4. Turn the H focus counterclockwise and focus the dot in the center of the screen well. The dot signal is divided into two sections at that time.
5. Turn the H focus VR counterclockwise so that the dot will be as shown in Fig.3-32. At that time, both ends of the central section of the screen are in the same state.



Fig. 3-32

6. Check that the resolution is more than 800 lines by means of a digital monoscope signal.
7. Check that the magenta ring is un conspicuous by means of an all-white signal.

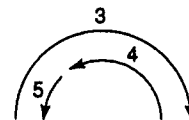


Fig.3-33 Movement of VR when viewed from the front

3. PVM-14M2 Series (CRT14MG)

Make adjustment so that the dots in the central section (right and left edges) will be undivided, respectively. (When well-focused, the dot is divided into two sections.)

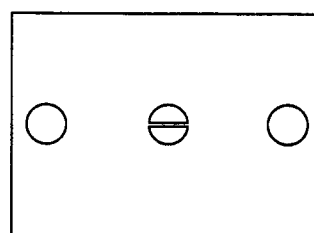
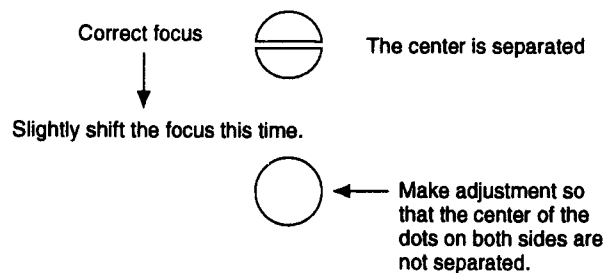




Fig. 3-34


4. PVM-20M2 Series

Focus the character "30" in the center of monoscope well as usualy.

SECTION 4 SAFETY RELATED ADJUSTMENT

When the parts (with a  mark on the circuit diagram) shown below are replaced, confirm the matters described in items 4-1 and 4-2 shown below.

 R1536

 R551, R506, R519, R518, R516, R515, R508, R517, R1560, R1537, C549, C512, C513, C523, C592, D501, D533, Q500, Q511, IC500, and IC507

When the following parts are replaced, check the +B voltage:
IC600, IC602, D610, C615, C631, C621, C632, and T603

Confirmation procedure

1. Input 120 VAC.
2. Input a monoscope signal, and minimize CONTRAST and BRIGHT.
3. Check that the voltage of the CN605 ④ pin is 115.7 VDC.

4-1. CONFIRMATION OF +B MAXIMUM

Standard : Less than 115.7 VDC (CN605 pin ④)

Check Condition Input voltage : 130 VAC

Note : Use NF Power Supply or make sure that distortion factor is 3% or less.

Input signal : Monoscope

Controls : BRT & CONT → Normal

4-2. CONFIRMATION OF HOLD-DOWN CIRCUIT

Check Condition Input voltage : 130 VAC

Input signal : White & Dot

Controls : BRT & Cont → Max. & Min.

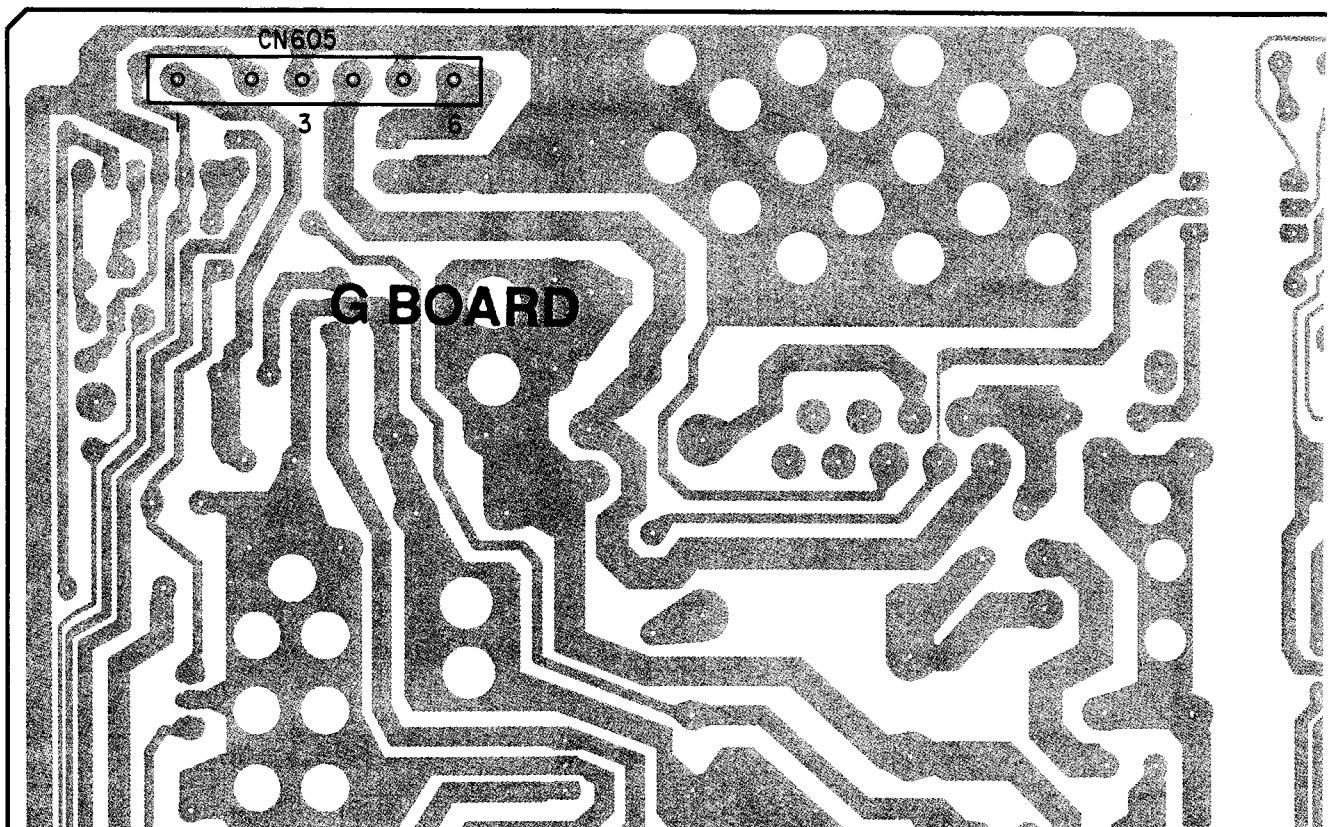
4-2-1. Hold-Down Circuit (+B)

- a) Adjust the beam current to $600 \pm 50 \mu\text{A}$ with the pin ④ of CN605 with the external DC power supply (less than 127.0 VDC) to the point just before the hold-down circuit works.
Input Signal : White
- b) Adjust the beam current to $80 \pm 20 \mu\text{A}$ with the pin ④ of CN605 with the external DC power supply (less than 127.0 VDC) to the point just before the hold-down circuit works.
Input Signal : Dot

4-2-2. Hold-Down Circuit (3rd Wire voltage of FBT)

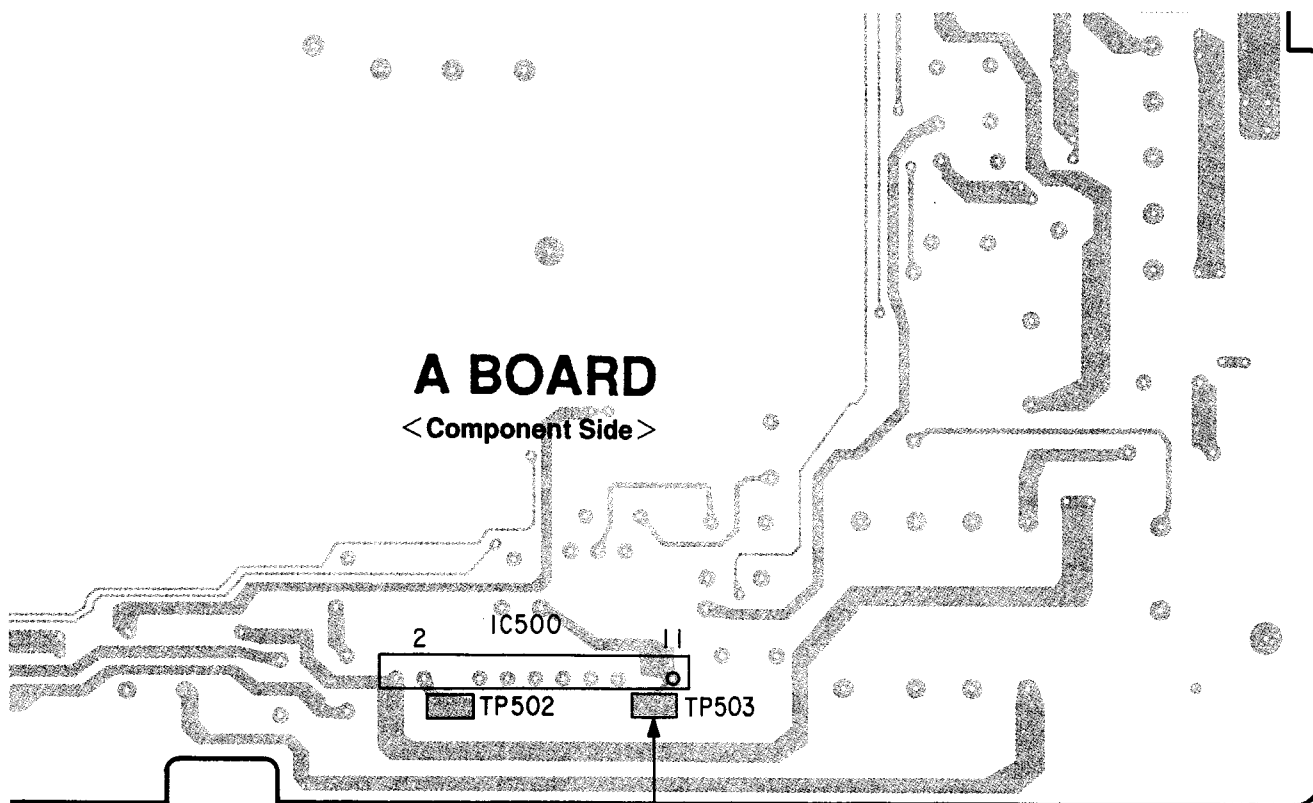
Check item : Check of pin ⑪ of IC500 voltage : more than 110.0 VDC

- a) Adjust the beam current to $600 \pm 50 \mu\text{A}$ with the pin ⑪ of IC500 with the external DC power supply (less than 141.0 VDC) to the point just before the hold-down circuit works.
Input Signal : White
- b) Adjust the beam current to $80 \pm 20 \mu\text{A}$ with the pin ⑪ of IC500 with the external DC power supply (less than 141.0 VDC) to the point just before the hold-down circuit works.
Input Signal : Dot

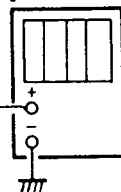


A BOARD

<Component Side>

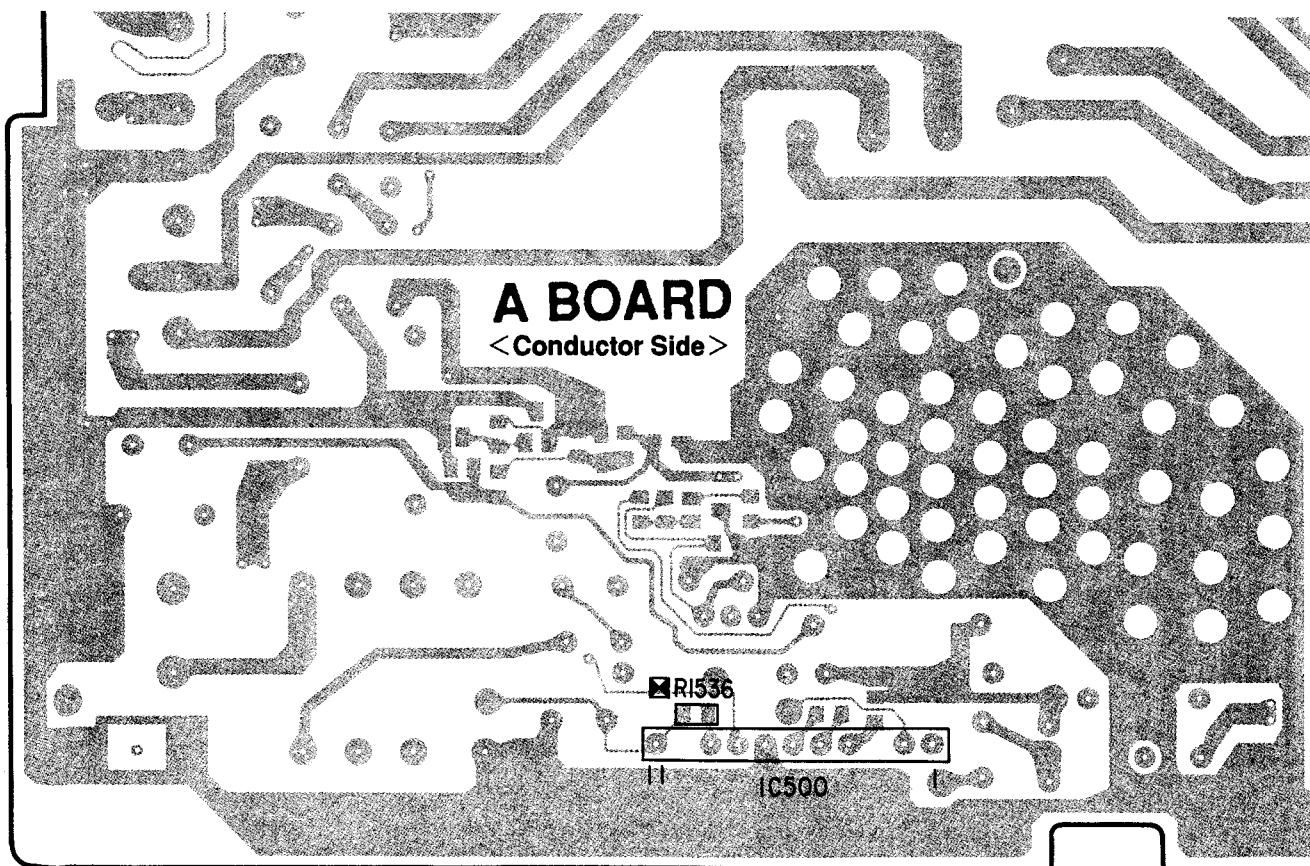


digital multimeter



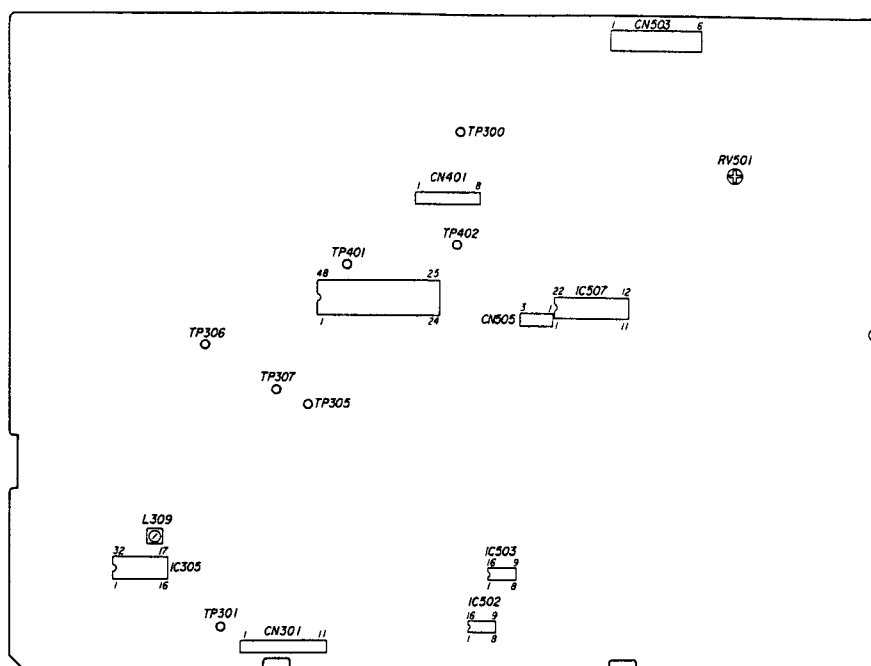
A BOARD

<Conductor Side>



SECTION 5 CIRCUIT ADJUSTMENTS

5-1. A BOARD ADJUSTMENT



1. PREPARATION/SIGNAL SPECIFICATIONS

1. Signal specifications

- * Supply a composite video or component signals from the CN301 connector. Refer to Table 5-1 to take into consideration the effect on the Q board.

The level of the signal to supply should equal to values shown in Table 5-1 plus/minus 2% max.

Table 5-1

| Signal | | Details of signal | Standard level (Pedestal white) | Reduction rate % | Connector supply level (P-W) |
|------------------------------------|-----------------|--|------------------------------------|------------------|------------------------------|
| Composite video (75% color bar) | 358NT 443NT | 100% white | 0.714V | 93% | 0.664V |
| | | 75% white | 0.536V | ♦ | 0.498V |
| | | Burst (Green section) (P-P for this item only) | 286mV (632mV) | 94% (94%) | 269mV (594mV) |
| | PAL SECAM PAL M | 100% white | 0.7V | ♦ | 0.651V |
| | | 75% white | 0.525V | ♦ | 0.488V |
| | | PAL burst (Green section) (P-P for this item only) | 300mV (664mV) | 94% (94%) | 282mV (624mV) |
| Component (75% color bar) | BETA 0 | 100% white | 0.7V | 94.8% | 0.664V |
| | | 75% white | 0.525 | ♦ | 0.498V |
| | | 75% color B-Y, R-Y (P-P for this item only) | 0.7V | ♦ | 0.664V |
| | SMPTE | 100% white | 0.7V | ♦ | 0.664V |
| | | 75% white | 0.525V | ♦ | 0.498V |
| | | 75% color B-Y, R-Y (P-P for this item only) | 0.525 | ♦ | 0.498V |

2. Preparation

- * In this chapter, indicates the control items in the service mode.

Example: 60 H-FRQ

Write the applicable model data at the location of NO.114 MODEL in the service mode.

Group of models 4 ... 0

Group of models 5 ... 1

Group of models 1 ... 5

Group of models 2 ... 6

Group of models 3 ... 8

- * Refer to Table 5-2 for the following groups of models.

Table 5-2

| Group of models | Models | | |
|-----------------|------------------------|-----------|-----------|
| 1 | PVM-14M4U PVM-14M4A | PVM-14M4J | PVM-14M4E |
| 2 | PVM-14M2U | PVM-14M2E | PVM-14M2A |
| 3 | PVM-14M1J | | |
| 4 | PVM-20M4U PVM-20M4A | PVM-20M4J | PVM-20M4E |
| 5 | PVM-20M2U | PVM-20M2E | |

- * CONT 80% is the center click position of the user controller.

2. ADJUSTMENT OF DEFLECTION SYSTEM

1. Adjustment of horizontal oscillation frequency

1. Input a 525 monoscope signal.
2. CONT ... 80%
BRT 50%
3. Set the unit in the service mode.

4. Connect the IC507 ① PIN on the A board to GND via the 100 μ /16V chemical capacitor. (Use CN505③ PIN for GND.) Or insert the H-FREQ jig into CN505.

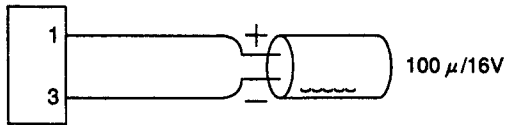


Fig.5-1 H-FREQ jig

5. Adjust **[60 H-FREQ]** so that the slanting lines on the screen will be vertical. (Fig.5-2)
6. Input a 625 monoscope signal.
7. Adjust **[50 H-FREQ]** so that the slanting lines on the screen will be vertical. (Fig.5-2)

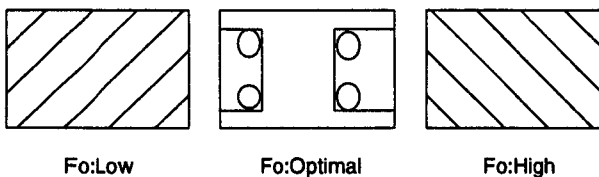


Fig.5-2

2. H BLANKING adjustment

1. Input a 525 monoscope signal.
2. CONT ... 80%
BRT ... 50%
3. Set the unit in the service mode.
4. Observe the anode of TP300 or D516 with an oscilloscope, and adjust **[H-BLANKING]** so that the waveform will be as shown in Fig.5-3.

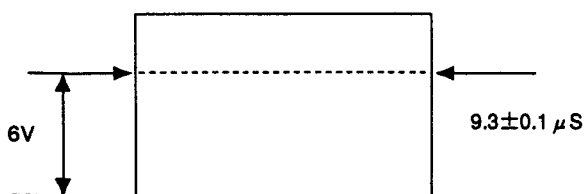


Fig.5-3

3. Picture phase adjustment

1. Input a 525 monoscope signal.
2. Set the unit in the UNDER SCAN mode.
3. CONT ... Min.
BRT ... Max.
4. Set the unit in the service mode.
5. Adjust **[U/N H-SIZE]** so that the white frame of the monoscope will be approx. 1 cm to the inside of the effective screen.
6. Turn RV501 (H-CENT) so that $B = B'$.
7. Adjust **[60 VIDEO PHASE]** so that the signal area will be in the center ($A = A'$) of the deflection area. (Fig.5-4)
8. Input a 625 monoscope signal.
9. Adjust **[50 VIDEO PHASE]** in the same manner.

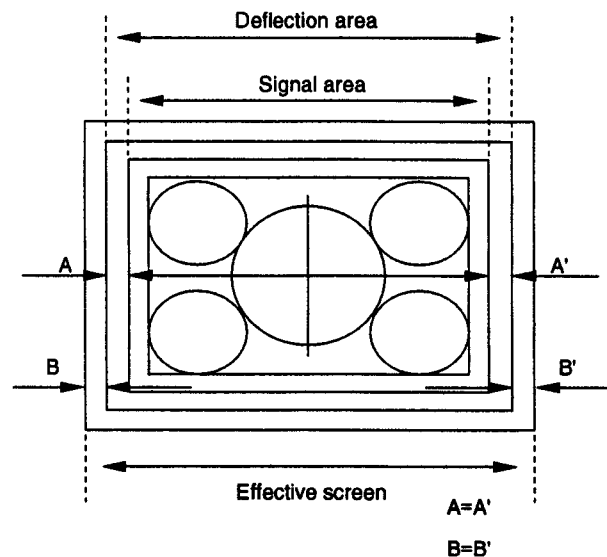


Fig.5-4

4. V BLANKING adjustment

1. Input a 525 monoscope signal.
2. Set the unit in the UNDER SCAN mode.
3. CONT ... Min.
BRT ... Max.
4. Set the unit in the service mode.
5. Adjust **[V-BLANKING <60>]** so that the white frame in the upper section of the monoscope will be about to be blanked.

Note : Blanking up to the point 1H away from the white frame is permissible, but the adjusting center should be up to the point 0.5H away from the frame.

6. Cancel the UNDER SCAN mode, and set the unit in the normal 16:9 mode.
7. Adjust **[16:9 BLANKING START <60>]** and **[16:9 BLANKING END <60>]** so that the number of frames in the vertical direction in the luminous section of the screen will be 11.74 and the BLK quantity at the top and bottom will be the same.

Note : Make adjustment before 16:9 V-SIZE adjustment.

8. Input a 625 monoscope signal.
9. In the same way as 5. shown above, adjust **V-BLANKING <50>**.
10. Adjust **16:9 BLANKING START<50>** and **16:9 BLANKING END<50>**, in the same way as 6. and 7., so that the number of frames in the vertical direction in the luminous section of the screen will be 11.2 and the BLK quantity at the top and bottom will be the same.

5. Vertical deflection adjustment

1. Input a 525 monoscope signal.
2. CONT ... 80%
BRT ... 50%
3. Set the unit in the service mode.
4. Roughly adjust **NOR 60 V.SIZE** so that the size will be 12 frames.
Adjust V.LIN with **V.LIN**.
Adjust CENT with **V.CENT**.
V.CENT must be reviewed after adjustment of V.LIN.
Adjust **NOR 60 V.SIZE** so that it will equal the standard value.
5. Set the unit in the 16:9 mode by the user controller SW.
6. Make the same adjustment with **16:9 NOR V.SIZE <60>**.
7. Set the unit in the NORMAL SCAN mode.
8. Input a 625 signal.
9. Adjust **NOR 50 V.SIZE** so that the SIZE will equal the standard value.
10. Set the unit in the 16:9 mode.
11. Adjust **16:9 NOR V.SIZE <50>** so that it will equal the standard value.

Table 5-3 NORMAL V. SIZE standard

| | | 525 | 625 |
|--------|-----|------------------|-----------------|
| 4 : 3 | | 11.75±0.2 frames | 11.2±0.2 frames |
| 16 : 9 | 14" | 154mm | ← |
| | 20" | 217mm | ← |

6. Horizontal deflection adjustment (Normal scan adjustment)

1. Input a 525 monoscope signal.
2. CONT ... 80%
BRT 50%
3. Set the unit in the service mode.
4. Rough adjustment of H.SIZE
Roughly adjust **NOR H.SIZE** so that H.SIZE will be 15.75 frames.
5. Adjust the horizontal deflection by means of **NOR PIN AMP**, **NOR PIN PHASE**, **NOR U.PIN AMP**, **SEXY**, **V BOW**, **V ANGL**, **NOR H SIZE**, **L PIN AMP**, and **L V BOW**.
(While correcting a distorted parallelogram and curvature with V.ANGL and BOW, make adjustment so that the horizontal and vertical lines of the screen will be straight.)
6. Set the unit in the 16:9 mode.
7. Make the same adjustment as 5. with **16:0 NOR PIN AMP** and **16:9 NOR PIN PHASE**

Table 5-4 NORMAL H. SIZE standard

| | 525 | 625 |
|--------|------------------|-----------------|
| 4 : 3 | 11.75±0.2 frames | 15.0±0.2 frames |
| 16 : 9 | 11.75±0.2 frames | 15.0±0.2 frames |

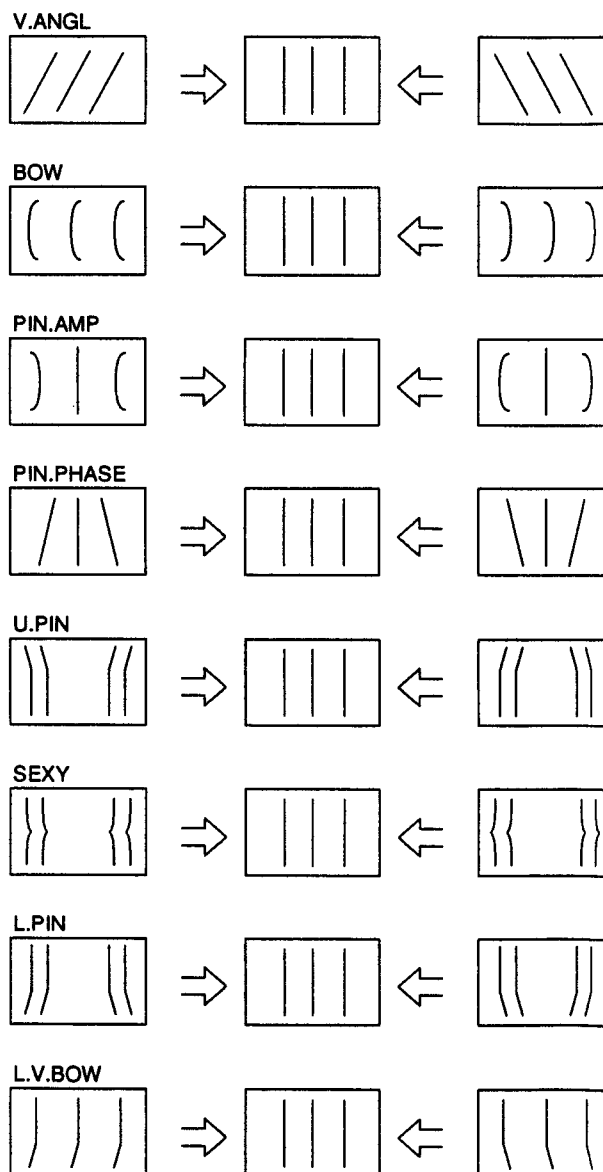


Fig.5-5

7. Horizontal deflection adjustment (UNDER SCAN adjustment)

1. Input a 525 monoscope signal.
2. CONT ... 80%
BRT 50%
3. Set the unit in the U/S mode.
4. Set the unit in the service mode.
5. Adjust **[U/S V SIZE <60>]** so that UNDER V.SIZE will be within the standard.
6. Adjust **[U/S H SIZE]** so that UNDER H.SIZE will be within the standard.
7. Adjust **[U/S PIN AMP]** and **[U/S PIN-PHASE]**. (Adjust tracking according to 5., 6., and 7.)
8. After adjustment, the white frame of the monoscope shall not be out of the effective screen.
9. Set the unit in the 16:9 mode.
10. Make the same adjustment with 5. and 7. by means of **[16:9 U/S V SIZE <60>]**, **[16:9 U/S PIN-AMP]** and **[16:9 U/S PIN-PHASE]**.

Table 5-5

Standard values for groups of models 1, 2, and 3 (14")

| | 525 | 625 |
|-------------------|-------|-----|
| U/S H-SIZE | 252mm | ← |
| U/S V-SIZE | 188mm | ← |
| 16 : 9 U/S V-SIZE | 142mm | ← |

Table 5-6

Standard values for groups of models 4 and 5 (20")

| | 525 | 625 |
|-------------------|-------|-----|
| U/S H-SIZE | 364mm | ← |
| U/S V-SIZE | 272mm | ← |
| 16 : 9 U/S V-SIZE | 205mm | ← |

11. Set the unit in the 16:9 mode.
12. Input a monoscope signal.
13. Make the same adjustment with 5. by means of **[U/S V SIZE <50>]**.
14. Set the unit in the 16:9 mode.
15. Make the same adjustment with 5. by means of **[16:9 U/S V SIZE <50>]**.

Note : If there is not time enough for adjustment (5. Vertical deflection adjustment and 6. and 7. Horizontal deflection adjustment), confirm that the respective sections will operate normally and that adjustment is possible, and then input standard adjustment values.

8. H/V-DELAY adjustment

Note : This item applies only to groups of models 1, 2, 4, and 5.

8-1. H-DELAY adjustment

- 1) Input a 525 monoscope signal.
- 2) CONT ... 80%
BRT 50%
- 3) Set the unit in the H/V DELAY mode.
- 4) Set the unit in the service mode.
- 5) Connect the probe of an oscilloscope to IC503 ⑦ PIN. Adjust **[H DELAY]** so that the output waveform will be as shown in Fig.5-6.

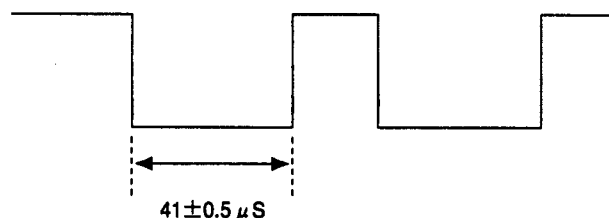


Fig.5-6

8-2. V-DELAY adjustment

- 1) Input a 525 monoscope signal.
- 2) CONT ... 80%
BRT 50%
- 3) Set the unit in the H/V DELAY mode.
- 4) Set the unit in the service mode.
- 5) Connect the probe of an oscilloscope to IC502 ⑦ PIN. Adjust **[V DELAY]** so that the output waveform will be as shown in Fig.5-7.

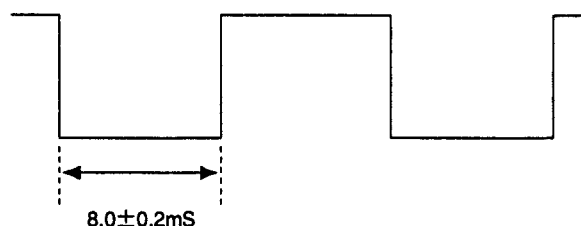


Fig.5-7

8-3. Confirmation of screen

Confirm that the screen is as shown in Fig.5-8.

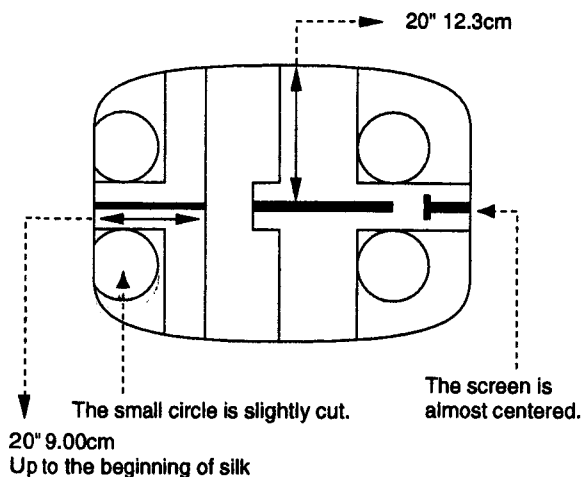


Fig.5-8

9. Writing adjustment results

Write the adjustment results.

Note : Do not turn off the power before writing the adjustment results; otherwise, they will all be lost.

3. Signal system adjustment

1. SUB CON adjustment during NORM and H/V DL

Note : H/V-DL is not applicable to the group of models 3.
Adjustment must be completed before the HUE adjustment of NTSC358/443.PAL.

1. Input a vertical white line signal.

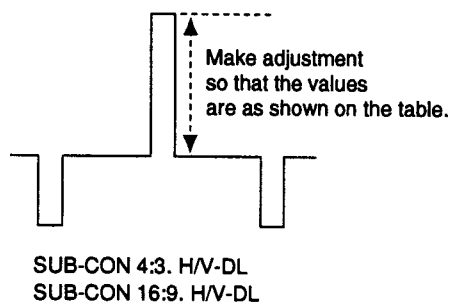
Note : Use a vertical white line signal (without 525 burst; H width of 3μS; 100IRE).

2. CONT ... 80%
BRT 50%
3. Connect the probe of an oscilloscope to CN401 ③ PIN on the A board.
4. Set the unit in the service mode.
5. Temporarily input "69" as an adjustment value for SUB.BRIGHT. Set the values in Table 5-7 as BIAS and GAIN data of C.TEMP1 and C.TEMP2.

Table 5-7

| Group of models | 1, 4 | 2, 3, 5 |
|-----------------|------|---------|
| BIAS GREEN | 512 | 400 |
| GAIN GREEN | 700 | 700 |

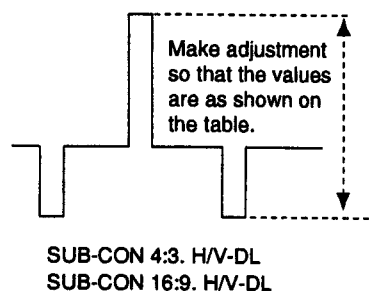
6. Adjust the pedestal or the distance between SYNC TIP and WHITE by means of SUB CON <4:3, NOR>, SUB CON <4:3, H/V DELAY, SUB CON <16:9, NOR>, and SUB CON <16:9, H/V DELAY>.
SUB CON <4:3, NOR>
SUB CON <16:9, NOR> (Fig.5-9)



| Group of models | 4 | 1 | 5 | 2 | 3 |
|-----------------|----------|----------|----------|----------|----------|
| 4 : 3 | 1.39Vp-p | 1.16Vp-p | 1.37Vp-p | 1.47Vp-p | 1.47Vp-p |
| 16 : 9 | 1.22Vp-p | 1.04Vp-p | 1.19Vp-p | 1.32Vp-p | 1.32Vp-p |

Fig. 5-9

SUB CON <4:3, H/V DELAY>
SUB CON <16:9, H/V DELAY> (Fig.5-10)



| Group of models | 4 | 1 | 5 | 2 |
|-----------------|----------|----------|----------|----------|
| 4 : 3 | 1.39Vp-p | 1.16Vp-p | 1.37Vp-p | 1.47Vp-p |
| 16 : 9 | 1.22Vp-p | 1.04Vp-p | 1.19Vp-p | 1.32Vp-p |

Fig. 5-10

Note : Not applicable to PVM-14M1J

2. SUB PHASE adjustment

Note : Not applicable to the group of models 3.

1. Input a component color bar (R-Y) and EXT SYNC. (BETA 0 level signal)
2. Set the unit in the EXT SYNC mode for component input.
3. Connect the probe of an oscilloscope to IC404 ④ PIN or TP402.
4. Set the unit in the service mode.
5. Adjust **SUB PHASE** so that the output waveform will be minimum (15 mVp-p or less). (Fig.5-11)

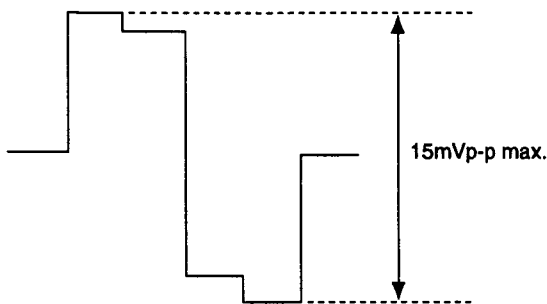


Fig. 5-11

3. SUB PHASE adjustment

Note : Not applicable to groups of models 1, 2, 4, and 5.

1. Input an NTSC color bar.
2. Connect L309 to GND and TP307 to 5V line (L320 line), respectively.
3. Set the unit in the service mode.
4. Adjust **SUB PHASE** so that the output waveform will be minimum (15 mVp-p or less). (Fig.5-11)

4. SUB CHROMA adjustment

Note : Not applicable to the group of models 3.

1. Input component color bars (R-Y, Y, and B-Y). (BETA 0 level signal)
2. Set COMPONENT LEVEL to BETA 0 via MENU.
3. Connect the probe of an oscilloscope to IC404 ④ PIN or TP402.
4. Set the unit in the service mode.
5. Adjust **SUB CHROMA NORMAL** so that the peaks of waveforms will be flush with each other as shown in Fig.5-12.

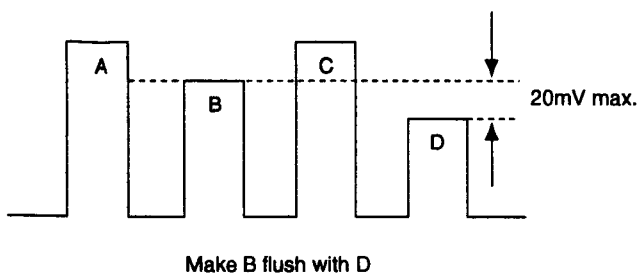


Fig. 5-12

5. SUB COL adjustment

Note : Not applicable to groups of models 1, 2, 4, and 5.

1. Set the unit in the service mode.
2. Input adjustment value 98 to **SUB CHROMA NORMAL**. (Fig.5-12)

6. R-Y LEVEL adjustment

Note : Not applicable to the group of models 3.

1. Input component color bars (R-Y, Y, and B-Y). (BETA 0 level signal)
2. Set COMPONENT LEVEL to BETA 0 via MENU.
3. Connect the probe of an oscilloscope to IC404 ④ PIN or TP401.
4. Set the unit in the service mode.
5. Adjust **R-Y LEVEL COMPONENT** so that the peaks of waveforms will be flush with each other as shown in Fig.5-13.

Make adjustment so that B = D as shown above. (20 mV max.)
Check that the difference between B and C is 30 mV or less.

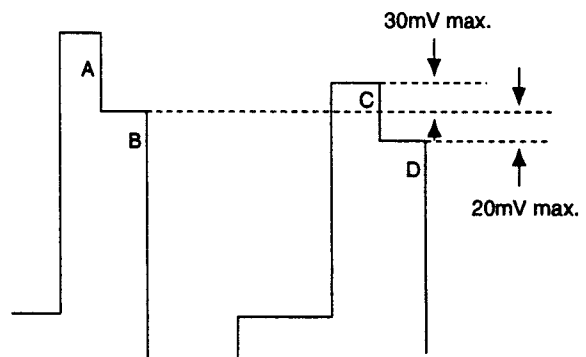


Fig. 5-13

7. SUB CHROMA N10/SMPTE

Note : Not applicable to the group of models 3.

1. Input component color bars (R-Y, Y, and B-Y). (SMPTE level signal)
2. Set COMPONENT LEVEL to N10/SMPTE via MENU.
3. Connect the probe of an oscilloscope to IC404 ④ PIN or TP402.
4. Set the unit in the service mode.
5. Adjust **SUB CHROMA SMPTE** so that the levels of B and D will be the same. (Fig.5-14)

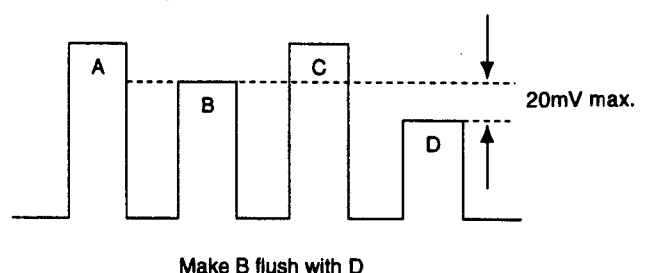


Fig. 5-14

8. Adjustment of burst gate pulse width

1. Input an NTSC color bar.
2. Connect the probe of an oscilloscope to TP301 (COMP-SYNC) and Q363 (E) or IC305 ① PIN. (Exercise care since IC305 ① PIN is a high-impedance line.)
3. Set the unit in the service mode.
4. Adjust **BGP WIDTH** so that the output waveforms will be as shown in Fig.5-15.

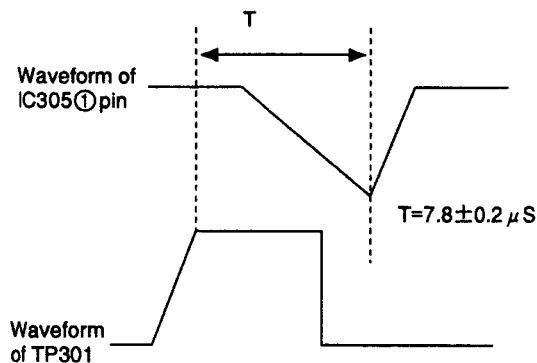


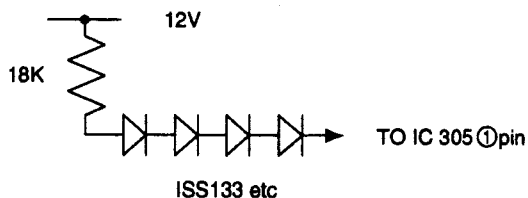
Fig. 5-15

9. VXO adjustment

9-1. X'tal 358

1. Input an NTSC color bar.
2. Connect a frequency counter to IC305 ② PIN.
3. Set the unit in the service mode.
4. Connect IC305 ① PIN as shown in Fig.5-16.
5. Adjust **NTSC CRYSTAL** so that the counter reading will be within the standard values shown below. (Adjustment may be made at a point at which the color flickering stops.)

X'tal 358 standard value: 3579545±20 Hz



(Arrange 4 Di's as close as possible to ① PIN at the shortest possible distance.)

Fig. 5-16

9-2. X'tal 443

1. Input a 443 NTSC color bar.
2. Connect a frequency counter to IC305 ② PIN.
3. Set the unit in the service mode.
4. Connect IC305 ① PIN in the same way as 9.-4) in 9. VXO adjustment.
5. Adjust **NTSC 443 CRYSTAL** in the same way as 9.-5) in 9. VXO adjustment.
X'tal 443 standard value: 4433619±20 Hz

10. NTSC - NTSC443 - PAL color demodulation adjustment

Note : 10-1. is not applicable to the group of models 3.

10-1. NT358PHASE (NORMAL)

1. Input an NTSC color bar.
2. Connect the probe of an oscilloscope to TP306.
3. Set the unit in the H/V DELAY mode.
4. Set the unit in the service mode.
5. Adjust **PHASE NTSC 358 NOR** so that the burst section of the output waveform will be straight. (Fig.5-17)

10-2. NT 358 PHASE (ACC OFF)

1. Conduct ACC OFF via MENU.
2. Make adjustment in the same way as 10-1. shown above by means of **PHASE NTSC 443 ACC OFF**. (Fig.5-17)

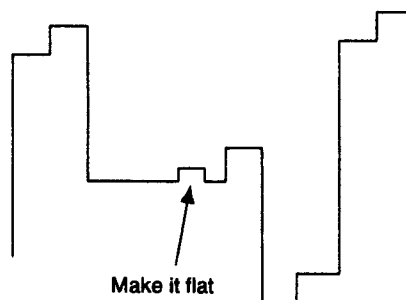


Fig. 5-17

10-3. NT 358 B-Y PHASE

Note : Make adjustment after PHASE adjustment and before CHROMA adjustment.

1. Input an NTSC color bar. (Input only the R-Y component. B-Y and Y should be OFF.)
2. Connect the probe of an oscilloscope to TP305.
3. Set the unit in the service mode.
4. Adjust **B-Y PHASE NTSC 358** so that the color components will be straight.

10-4. NT 358 CHROMA (NORMAL)

1. Input an NTSC color bar.
2. Connect the probe of an oscilloscope to IC404 ④ PIN or TP402.
3. Set the unit in the service mode.
4. Adjust **CHROMA NTSC 358 NOR** so that the peaks of waveforms will be flush with each other as shown in Fig.5-18.

10-5. NT 358 CHROMA (ACC OFF)

Note : 10-5. is not applicable to the group of models 3.

- 1) Conduct ACC OFF via MENU.
- 2) Adjust **CHROMA NTSC 358 ACC OFF** in the same way as 10-4. shown above. (Fig.5-18)

IC404 ④PIN

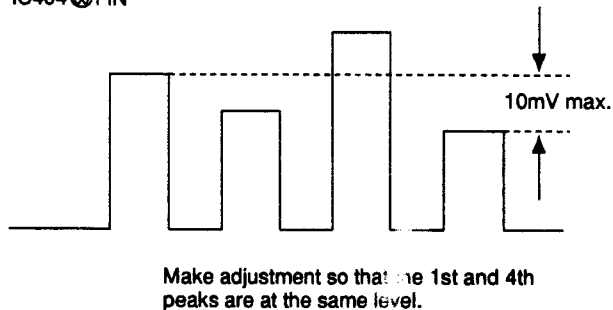


Fig. 5-18

10-6. NTSC 358 R-Y LEVEL

Note : Be sure to set ACC in the ON position before this adjustment.

- 1) Input an NTSC 358 color bar.
- 2) Connect the probe of an oscilloscope to IC 404 ④PIN or TP401.
- 3) Set the unit in the service mode.
- 4) Adjust **R-Y LEVEL NTSC 358** so that the peaks of waveforms will be flush with each other as shown in Fig.5-19.

IC 404 ④PIN

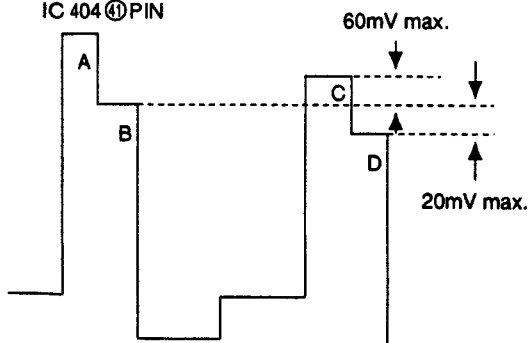


Fig. 5-19

10-7. NTSC 443 PHASE (NORMAL)

Note : 10-7-3). is not applicable to the group of models 3.

- 1) Input an NTSC 443 color bar.
- 2) Connect the probe of an oscilloscope to TP306.
- 3) Set the unit in the H/V DELAY mode.
- 4) Set the unit in the service mode.
- 5) Adjust **PHASE NTSC 443 NOR** so that the burst section of the output waveform will be straight. (Fig.5-20)

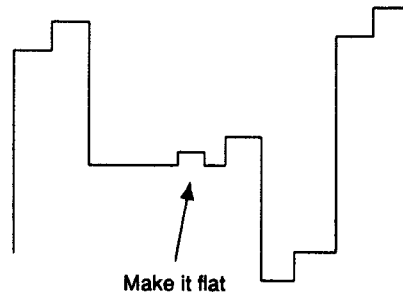


Fig. 5-20

10-8. NTSC 443 PHASE (ACC OFF)

Note : 10-8. is not applicable to group of models 3.

- 1) Conduct ACC OFF via MENU.
- 2) Adjust **PHASE NTSC 443 ACC OFF** in the same way as 10-7-5). (Fig.5-21)

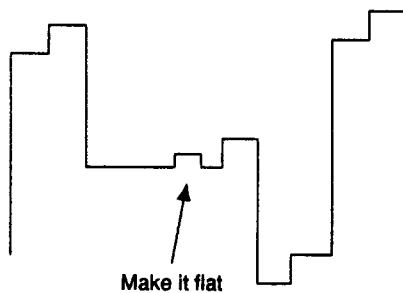


Fig. 5-21

10-9. NTSC 443 B-Y PHASE NTSC 443 CHROMA NOR

Note : Be sure to set ACC in the ON position before this adjustment.

Note : Remove HV.DELAY before this adjustment.

- 1) Input an NTSC 443 color bar.
- 2) Connect the probe of an oscilloscope to TP402.
- 3) Set the unit in the service mode.
- 4) While tracking by means of **B-Y PHASE NTSC 443** and **CHROMA NTSC 443 NOR**, make adjustment so that the peaks of waveforms will be the same. (Fig.5-22)

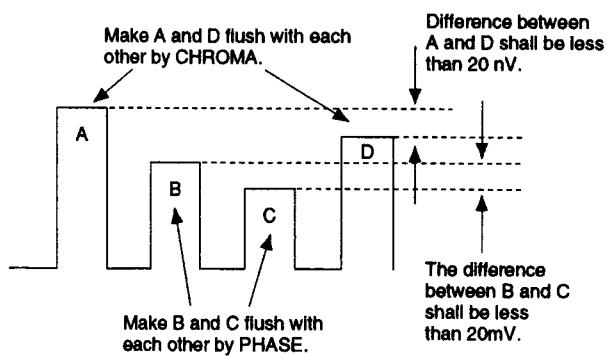


Fig. 5-22

10-10. NTSC 443 CHROMA (ACC OFF)

Note : 10-10. is not applicable to the group of models 3.

- 1) Conduct ACC OFF via MENU.
- 2) Adjust **[CHROMA NTSC 443 ACC OFF]** in the same way as 10-9-4). (Fig.5-23)

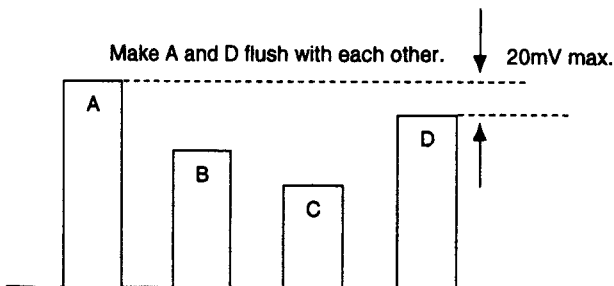


Fig. 5-23

10-11. NT 443 R-Y LEVEL

Note : Be sure to set ACC in the ON position before this adjustment.

- 1) Input an NTSC 443 color bar.
- 2) Connect the probe of an oscilloscope to TP401.
- 3) Set the unit in the service mode.
- 4) Adjust **R-Y LEVEL NTSC 443** in the same way as 10-6-4). (Fig.5-24)

Make adjustment so that B = D. (20 mV max.) Check that the difference between B and C is 60 mV or less.

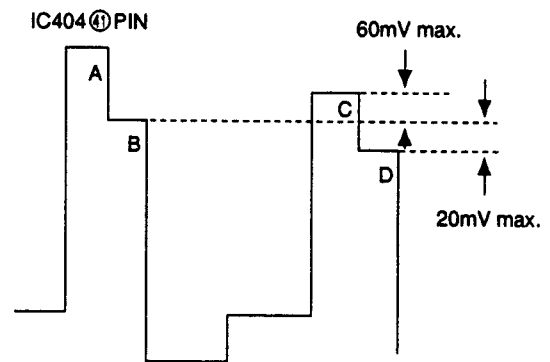
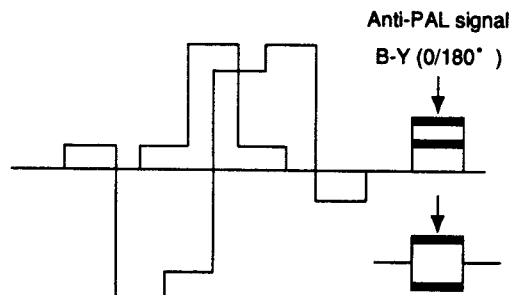


Fig. 5-24

10-12. PAL PHASE (NORMAL)

- 1) Input a PAL SP color bar.
- 2) Connect the probe of an oscilloscope to TP306.
- 3) Set the unit in the service mode.
- 4) Adjust **PHASE PAL NOR** so that the waveform of the B-Y anti-PAL signal will be "0."



*The signal waveform differs slightly every hour. Adjust it to "0."

Fig. 5-25 R-Y OUT

10-13. PAL PHASE (ACC OFF)

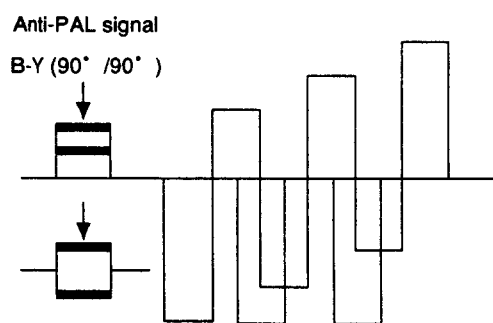
Note : 10-13. is not applicable to the group of models 3.

- 1) Conduct ACC OFF via MENU.
- 2) Adjust **PHASE PAL ACC OFF** in the same way as 10-12-4).

10-14. PAL B-Y PHASE

Note : Be sure to set ACC in the ON position before this adjustment.

- 1) Input a PAL SP color bar.
- 2) Connect the probe of an oscilloscope to TP305.
- 3) Set the unit in the service mode.
- 4) Adjust **B-Y PHASE PAL** so that the waveform of the R-Y anti-PAL signal will be "0." (Fig.5-26)



*The signal waveform differs slightly every hour.
Adjust it to "0."

Fig. 5-26 B-Y OUT

10-15. PAL CHROMA (NORMAL)

- 1) Input a PAL color bar.
- 2) Connect the probe of an oscilloscope to IC404 ⑩ PIN or TP402.
- 3) Set the unit in the service mode.
- 4) Adjust **CHROMA PAL NOR** so that the peaks of waveforms will be flush with each other. (Fig.5-27)

10-16. PAL CHROMA (ACC OFF)

Note : 10-16. is not applicable to the group of model 3.

- 1) Conduct ACC OFF via MENU.
- 2) Adjust **CHROMA PAL ACC OFF** in the same way as 10-15-4). (Fig.5-27)

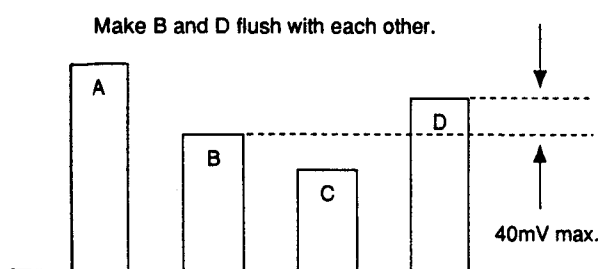


Fig. 5-27

10-17. PAL R-Y LEVEL

Note : Be sure to set ACC in the ON position before this adjustment.

- 1) Input a PAL color bar.
- 2) Connect the probe of an oscilloscope to IC404 ④ PIN or TP401.
- 3) Set the unit in the service mode.
- 4) Adjust **R-Y LEVEL PAL** so that the peaks of waveforms will be flush with each other as shown on the right. (Fig.5-28)

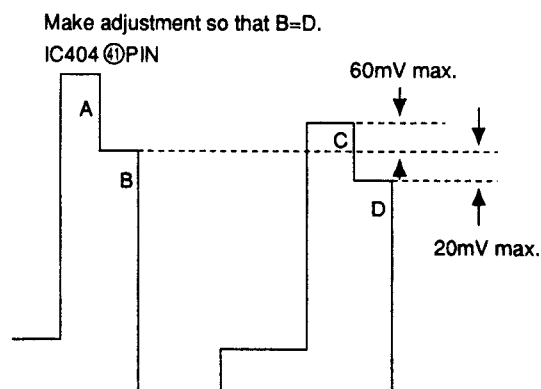


Fig. 5-28

11. SECAM adjustment

Note : Make adjustment after deflection adjustment.

Note : Subject to H-FREQ, H-BLK, VIDEO-PHASE, ANGLE, BOW, H-DELAY, etc.

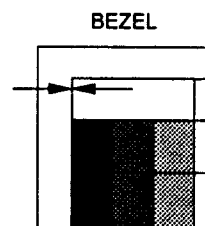
Note: 11. SECAM adjustment is not applicable to the group of models 3.

11-1. HP WIDTH (NORMAL) adjustment

- 1) Input a SECAM color bar.

Note : The board is roughly adjusted in 11-1., and IC317 ⑩ PIN pulse width may be used for control.

- 2) Set the unit in the UNDER SCAN mode.
- 3) Set the unit in the service mode.
- 4) Adjust **HP WIDTH NOR** so that the color section at the left edge of the upper portion of the screen is about to disappear. (Fig.5-29)



Make adjustment so that colors are about to disappear.

Fig. 5-29

11-2. Writing HP.WIDTH (NORMAL) data

Note : Not applicable to groups of models 1, 2, 4, and 5.

- 1) Set the unit in the service mode.
- 2) Input 102 to HP.WIDTH (NOR).

11-3. HP POSITION adjustment

Note : 11-3. is not applicable to the group of models 3.

- 1) Input a SECAM color bar.
- 2) Set the HV-DL mode.
- 3) Set the unit in the service mode.
- 4) Adjust **[HP POSITION]** as shown in Fig.5-30.

Note : The same as 11-3. The phase relationship between the beginning of IC317 ⑩ PIN pulse and the input VIDEO signal may be used for control.

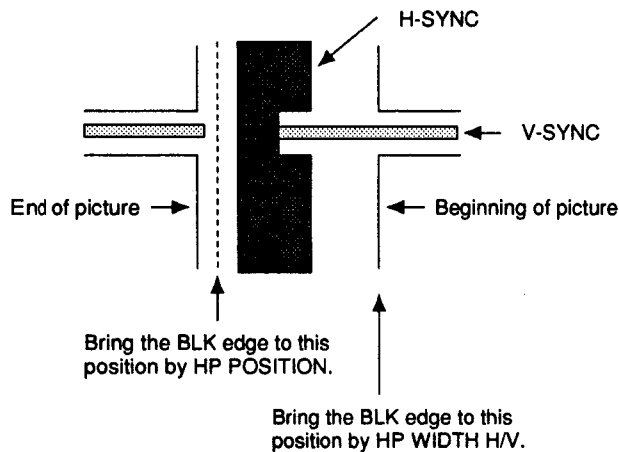


Fig. 5-30

11-4. HP WIDTH (H/V-DL) adjustment

Note : 11-4. is not applicable to the group of models 3.

- 1) Input a SECAM color bar.
- 2) Set the unit in the HV-DELAY mode.
- 3) Set the unit in the service mode.
- 4) Adjust **[HP WIDTH H/V-DELAY]** as shown in Fig.5-30. (Note: Check HP POSITION. If it is not in position, repeat 2) and 3).)

11-5. SECAM COL BALANCE

Note : 11-5. is not applicable to the group of models 3.

- 1) Input a SECAM color bar.
- 2) Connect the probe of an oscilloscope to TP306.
- 3) Set the unit in the service mode.
- 4) Adjust **[SECAM COLOR BALANCE R-Y]** so that the level in the achromatic color will be straight.

- 5) Connect the probe of an oscilloscope to TP305.

- 6) Adjust **[SECAM COLOR BALANCE B-Y]** so that the level in the achromatic color will be straight.

11-6. SECAM CHROMA

- 1) Input a SECAM color bar.
- 2) Connect the probe of an oscilloscope to IC404 ⑩ PIN or TP402.
- 3) Set the unit in the service mode.
- 4) Adjust **[CHROMA SECAM]** so that the peaks of waveforms will be flush with each other as shown in Fig.5-31.

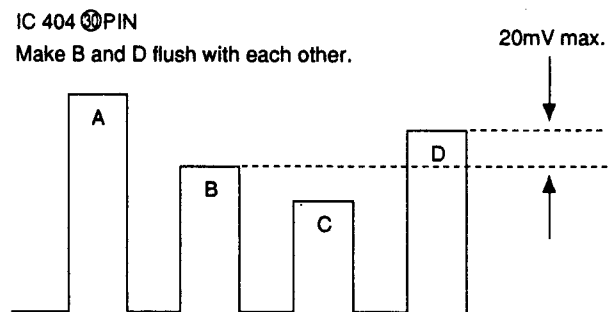


Fig. 5-31

11-7. SECAM R-Y LEVEL

- 1) Input a SECAM color bar.
- 2) Connect the probe of an oscilloscope to IC404 ⑪ PIN or TP401.
- 3) Set the unit in the service mode.
- 4) Adjust **[R-Y LEVEL SECAM]** so that the peaks of waveforms will be flush with each other as shown in Fig.5-32.

IC404 ⑪ PIN Make adjustment so that B=D.

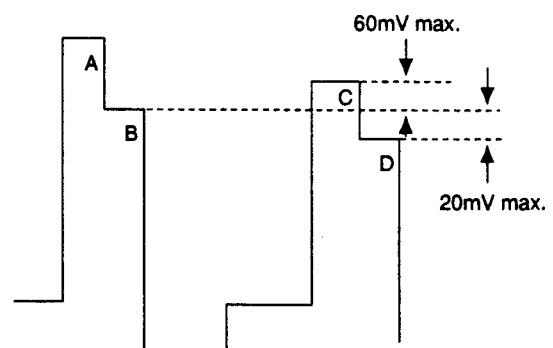


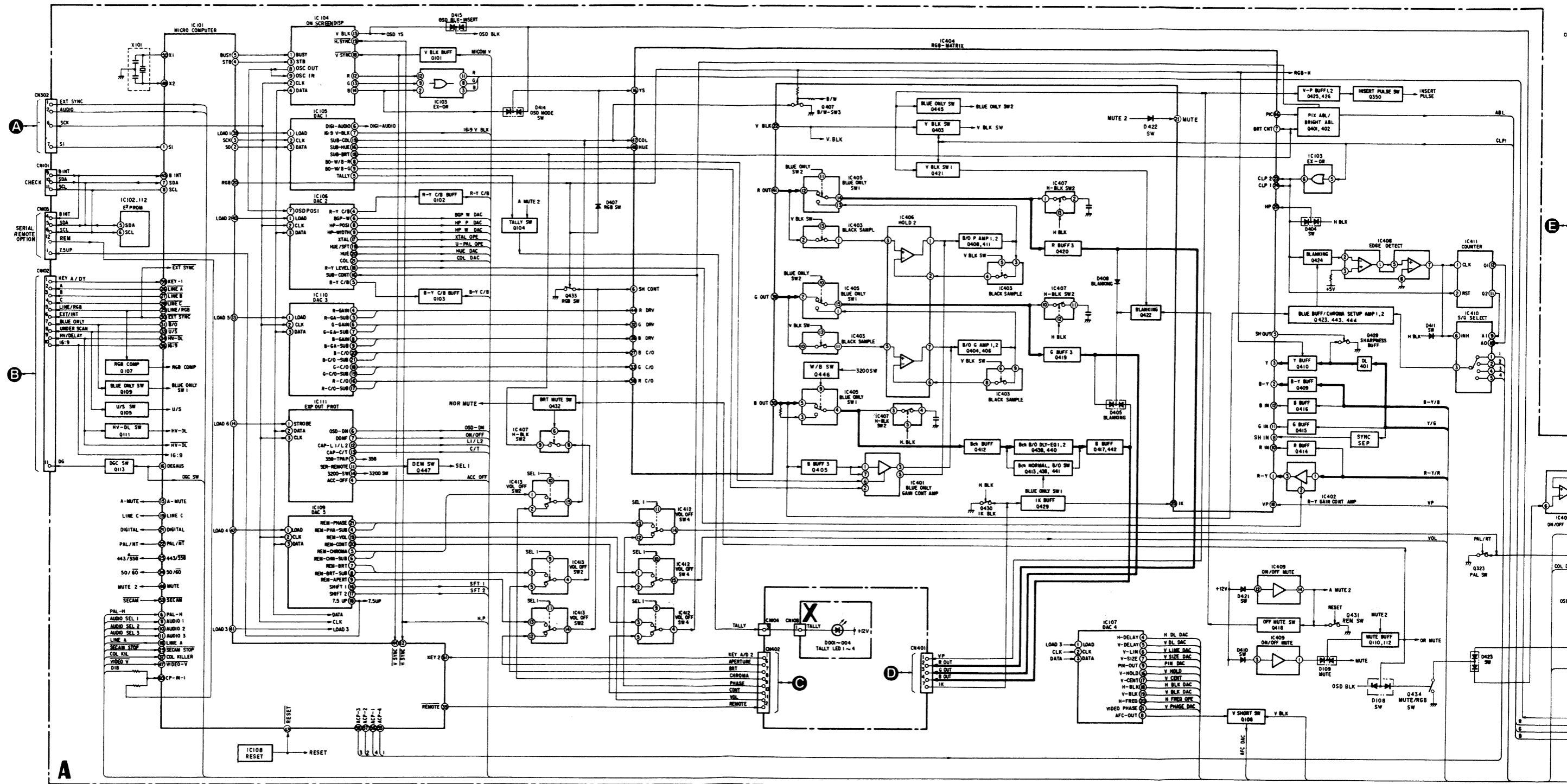
Fig. 5-32

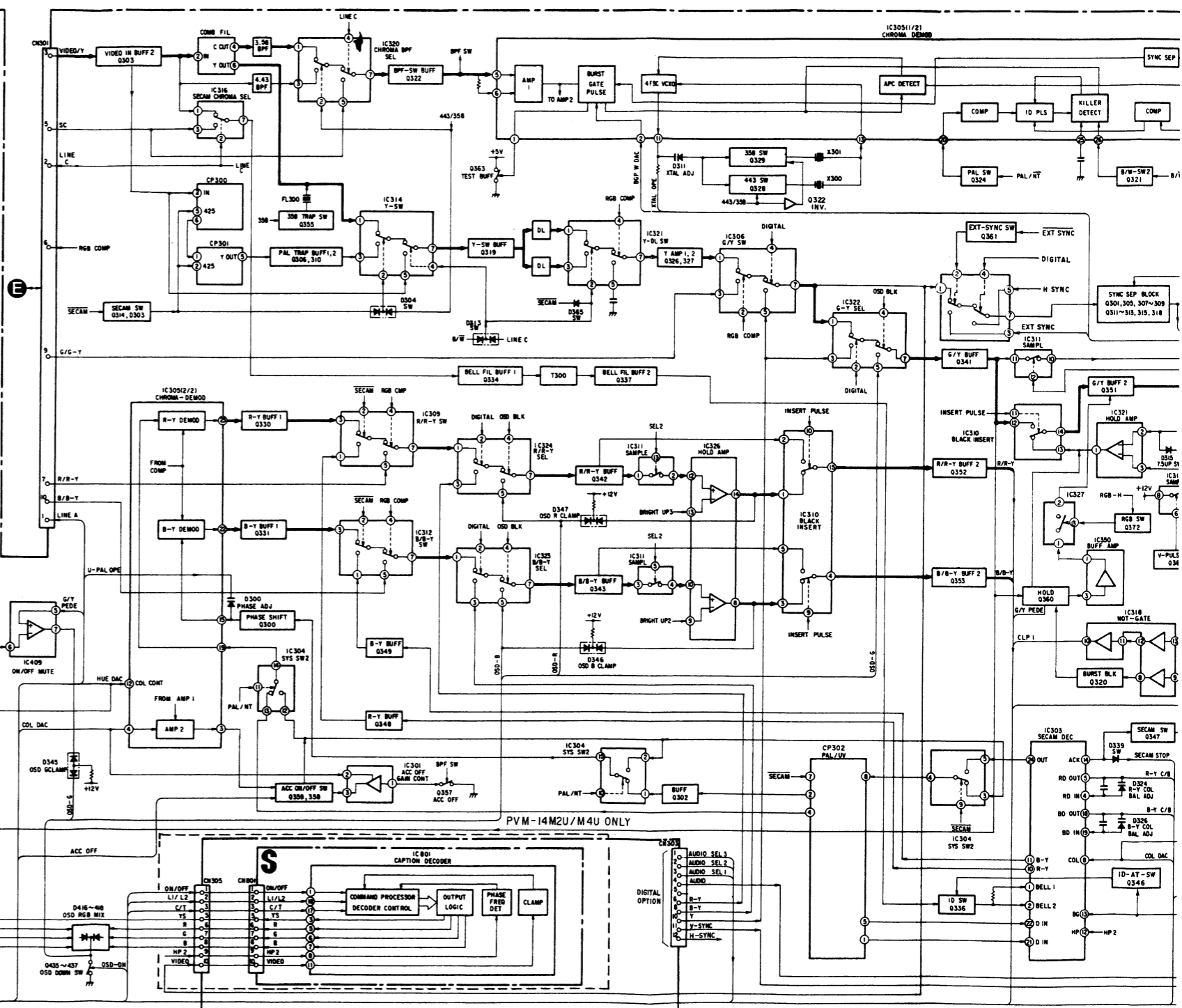
12. Writing adjustment results

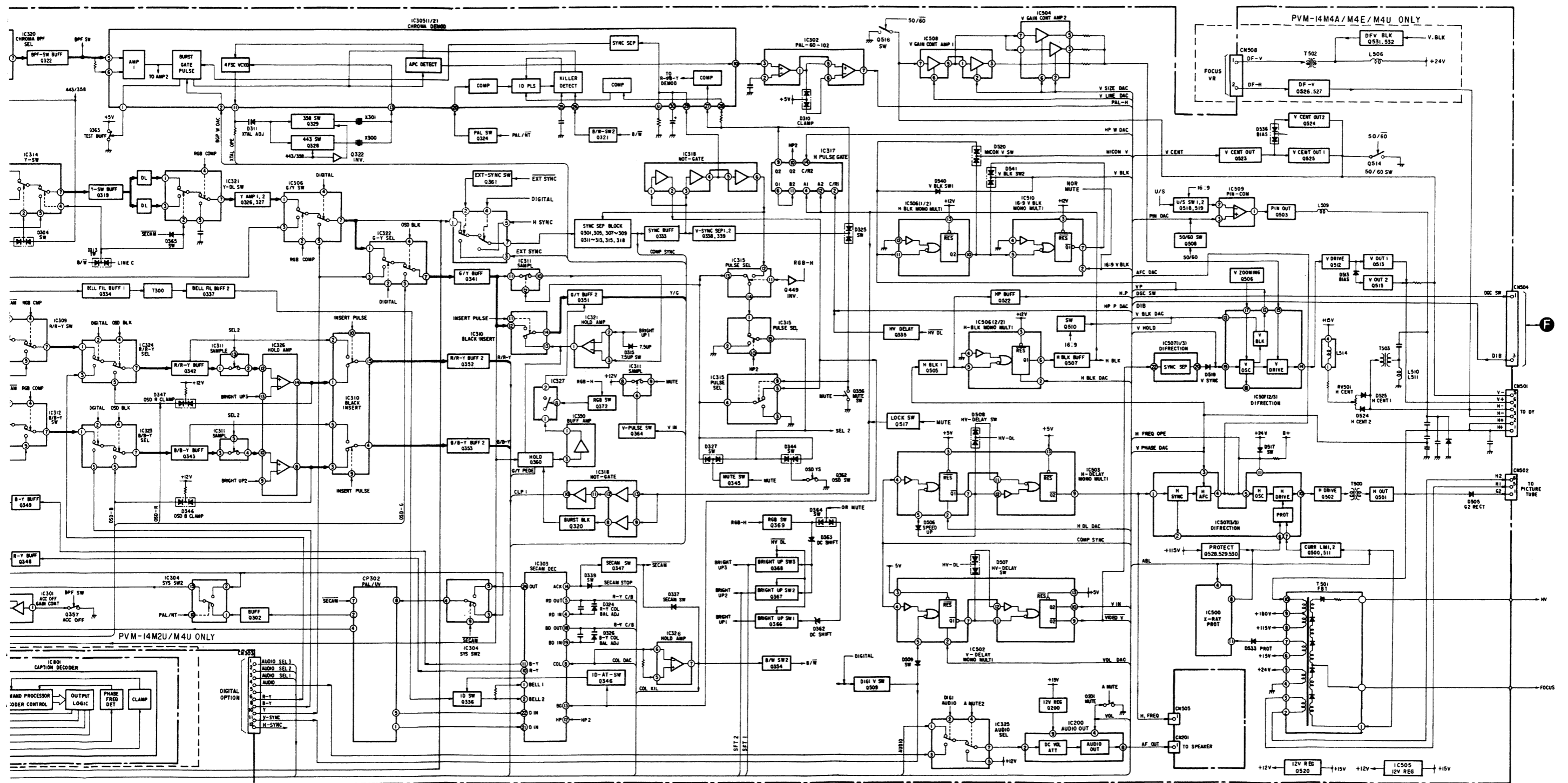
Write adjustment results in the memory.

SECTION 6 DIAGRAMS

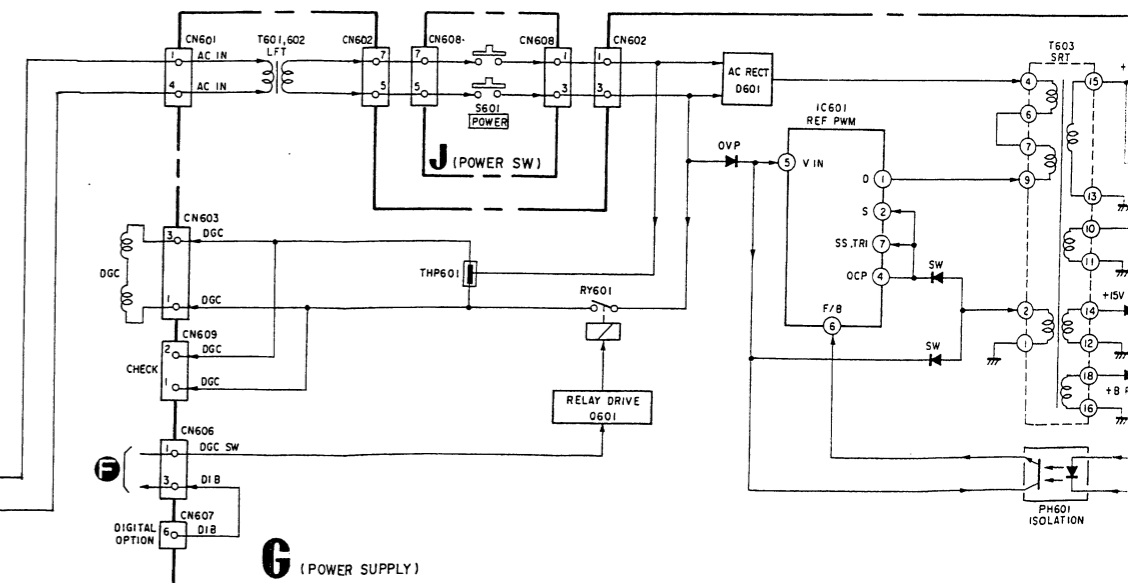
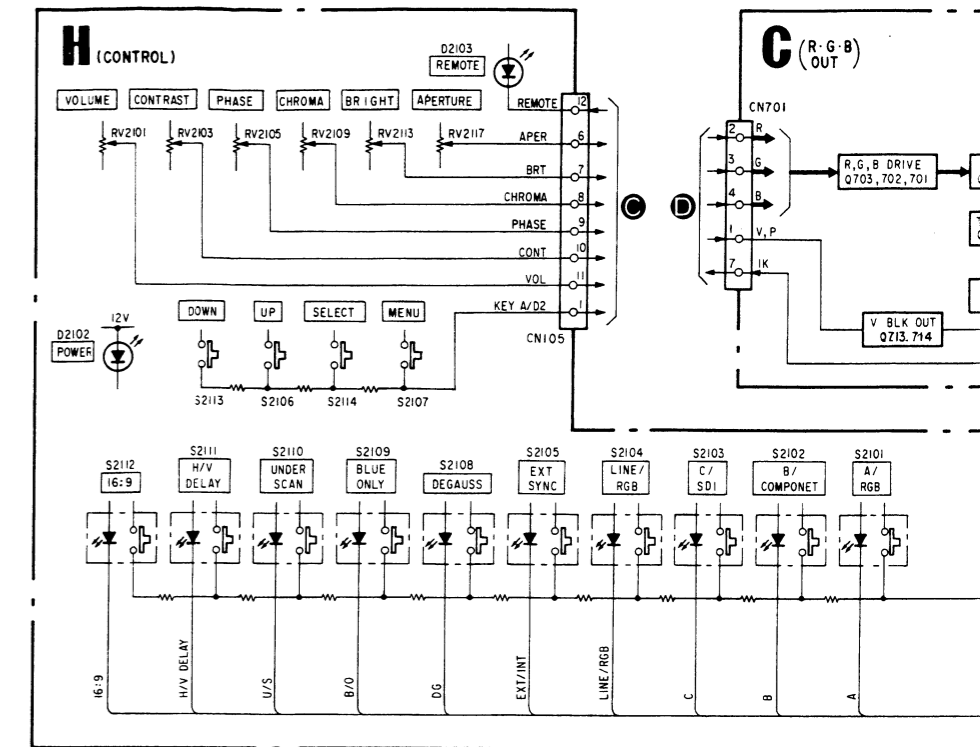
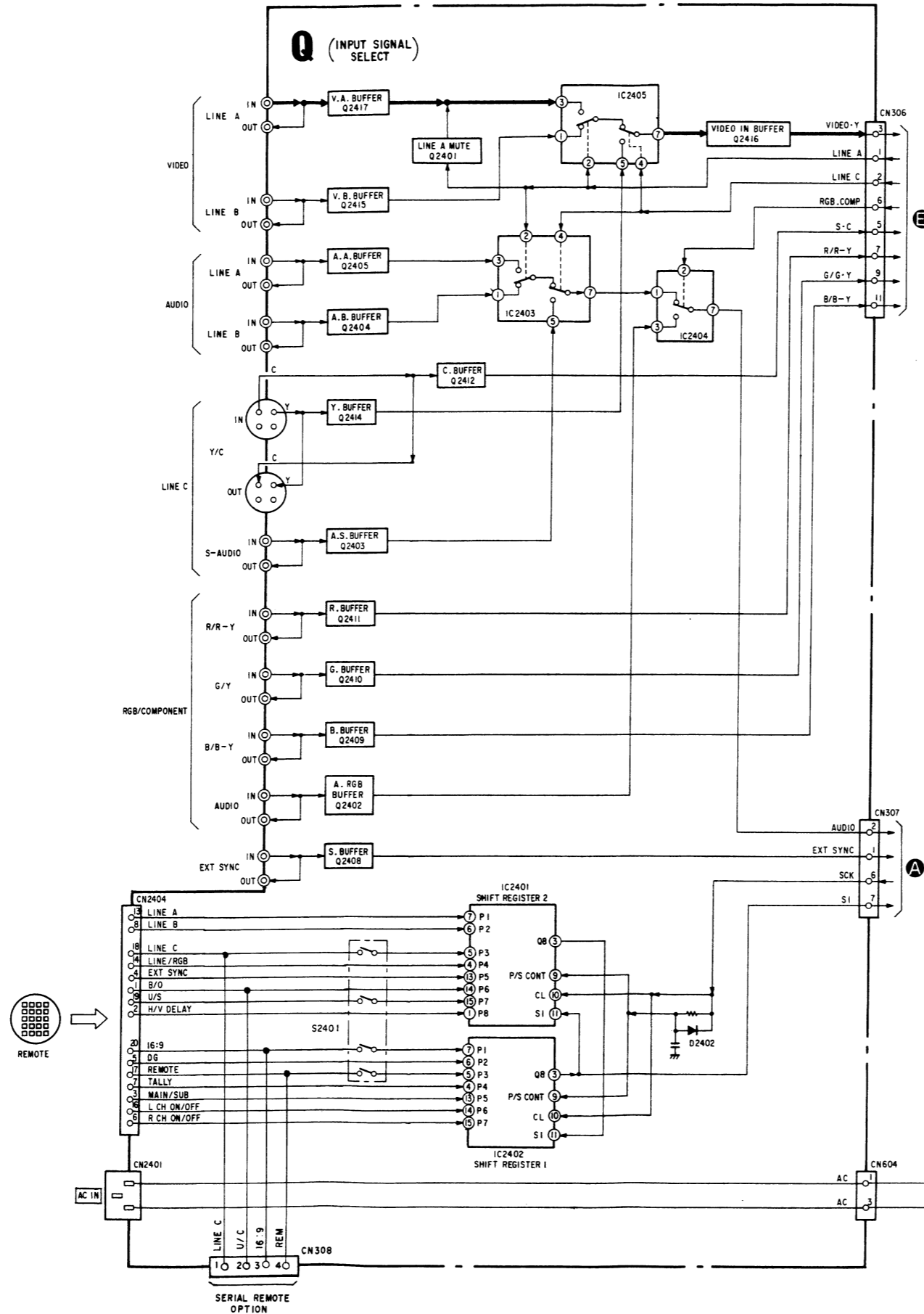
6-1. BLOCK DIAGRAMS (1)

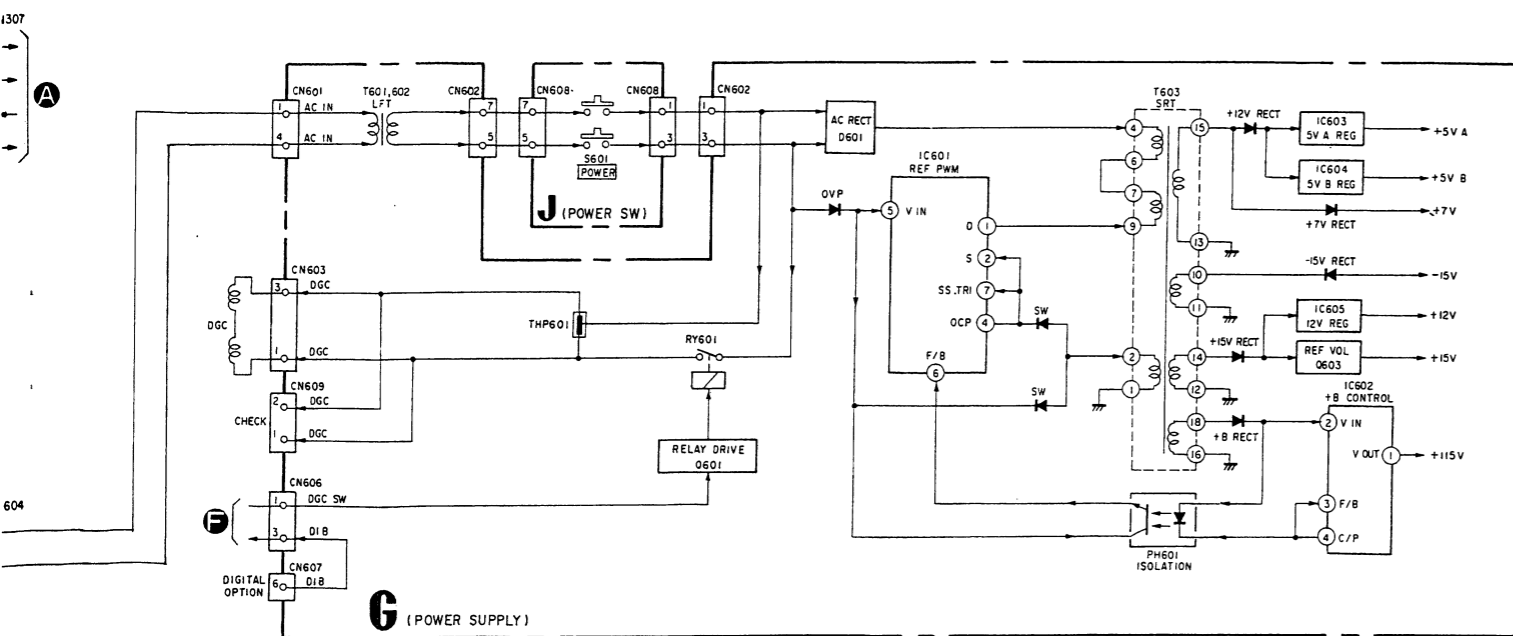
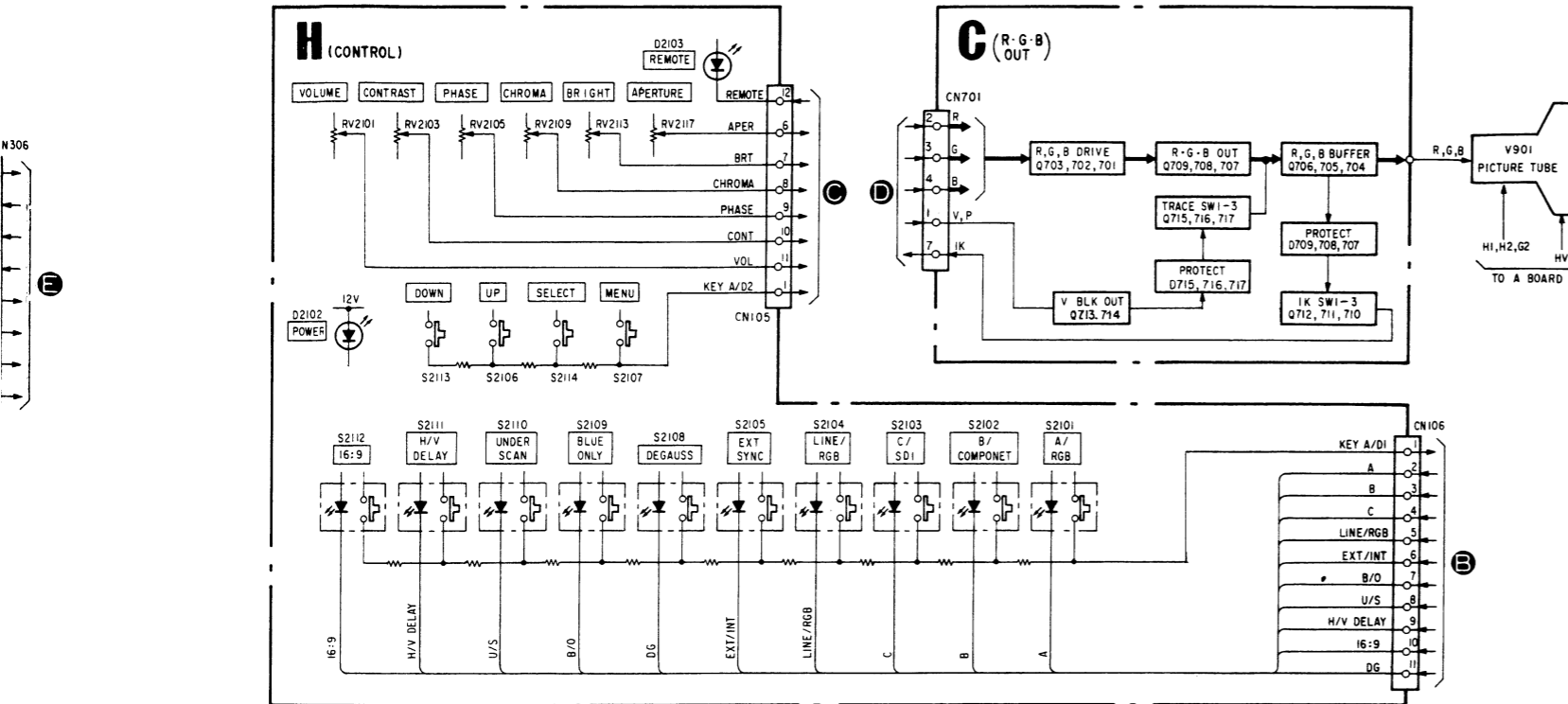


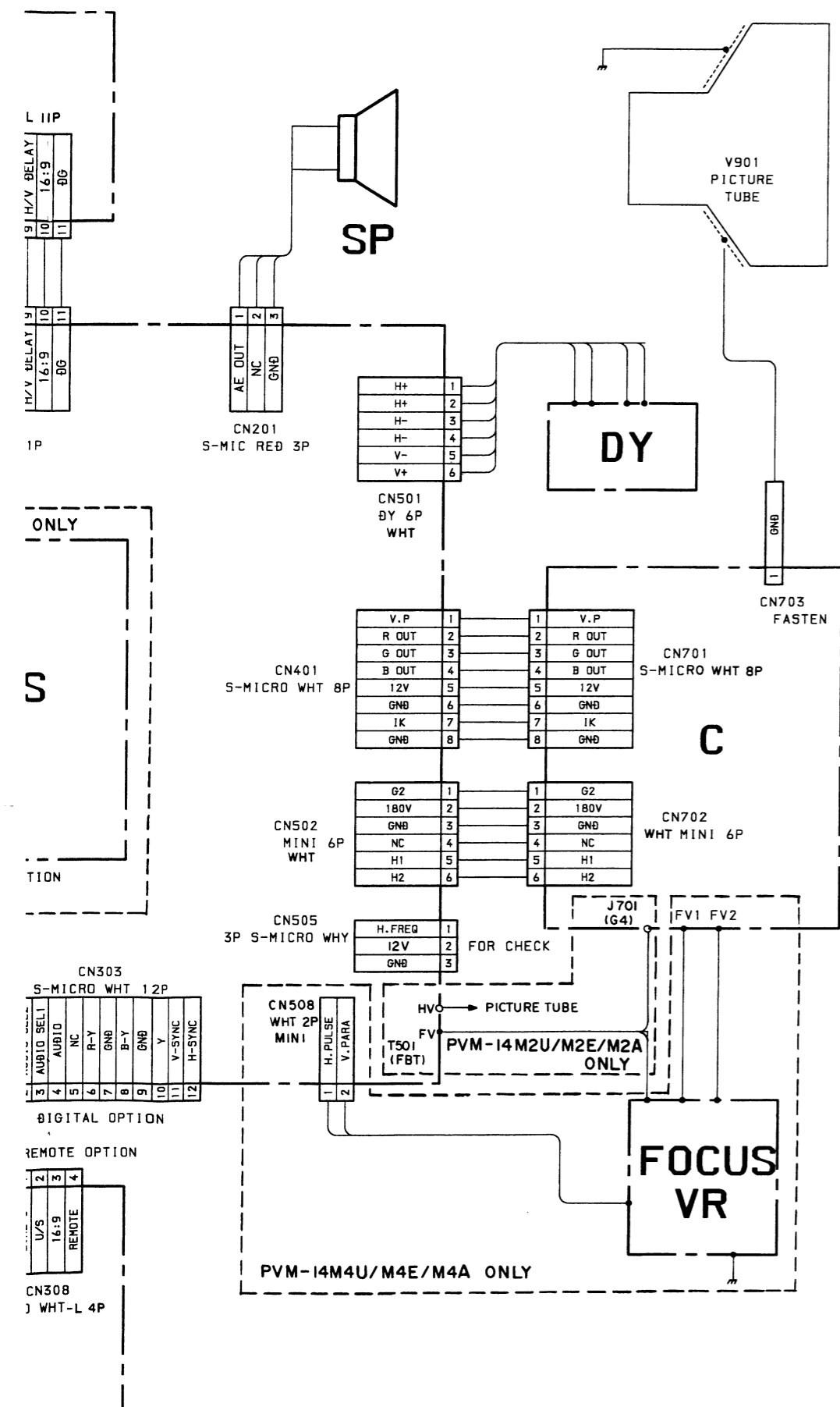




BLOCK DIAGRAMS (2)



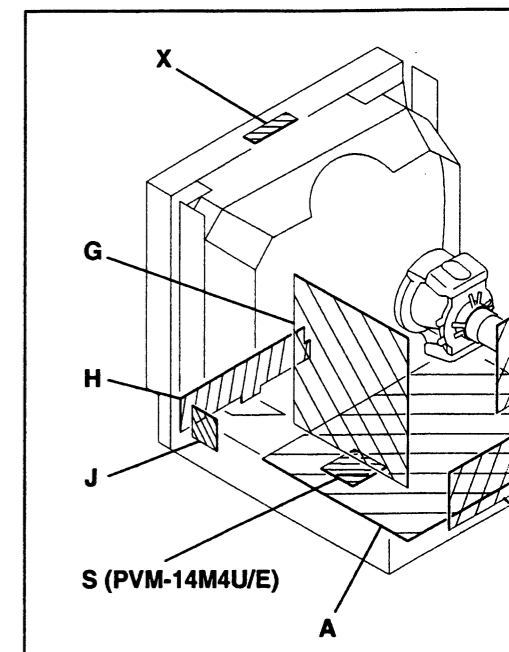




MEMO

Blank lined area for notes.

6-3. CIRCUIT BOARDS LOCATION



6-4. PRINTED WIRING BOARDS AND S

Note:

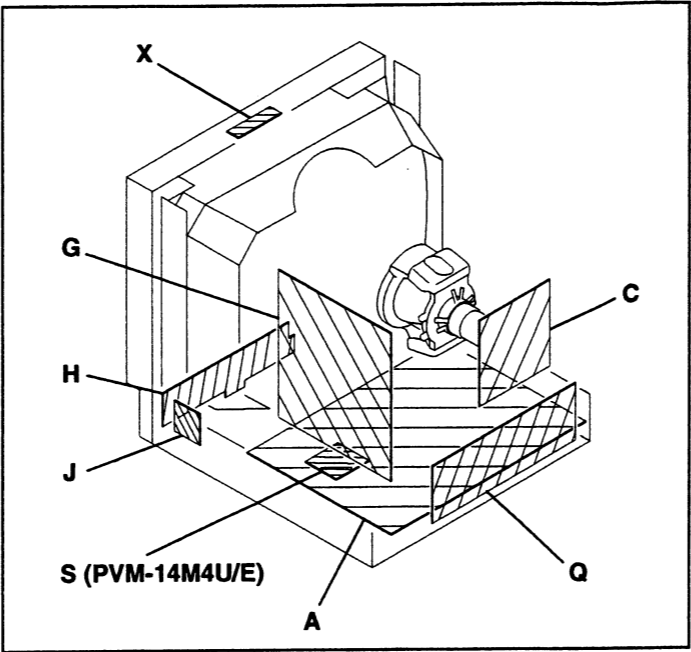
- All capacitors are in μF unless otherwise noted. 50 WV or less are not indicated except for electrolytics.
- Indication of resistance, which does not have one for electrical power, is as follows.

Pitch: 5 mm
Rating electrical power $\frac{1}{4}$ W

- All resistors are in ohms.
- : nonflammable resistor.
- : fusible resistor.
- Δ : internal component.
- : panel designation, and adjustment for repair.
- All variable and adjustable resistors have characteristic B, unless otherwise noted.
- The components identified by in this basic schematic diagram have been carefully factory-selected for each order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the originally used.
- When replacing components identified by , make necessary adjustments indicated. If results do not meet specified value, change the component identified by repeat the adjustment until the specified value is achieved. (Refer to R1536 adjust on Page 25 and 26.)
- When replacing the part in below table, be sure to perform related adjustment.

| Part replaced () | A |
|---|-----|
| C512, C513, C523, C549, C592, D501, D533, IC500, IC507, Q500, Q511, R506, R508, R515, R516, R517, R518, R519, R551, R1537, R1560..... (A BOARD) | (H) |

6-3. CIRCUIT BOARDS LOCATION



6-4. PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS

Note:

- All capacitors are in μF unless otherwise noted. pF : μF 50 WV or less are not indicated except for electrolytics.
- Indication of resistance, which does not have one for rating electrical power, is as follows.

Pitch: 5 mm
Rating electrical power $\frac{1}{4}$ W

- All resistors are in ohms.
- : nonflammable resistor.
- : fusible resistor.
- Δ : internal component.
- : panel designation, and adjustment for repair.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- The components identified by in this basic schematic diagram have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.
- When replacing components identified by , make the necessary adjustments indicated. If results do not meet the specified value, change the component identified by and repeat the adjustment until the specified value is achieved. (Refer to R1536 adjust on Page 25 and 26.)
- When replacing the part in below table, be sure to perform the related adjustment.

| Part replaced () | Adjustment () |
|---|----------------------|
| C512, C513, C523, C549, C592, D501, D533, IC500, IC507, Q500, Q511, R506, R508, R515, R516, R517, R518, R519, R551, R1537, R1560..... (A BOARD) | R1536 (HOLD-DOWN) |

- All voltages are in V.
- Voltage are dc with respect to ground unless otherwise noted.
- Readings are taken with a color-bar signal input.
- Voltage variations may be noted due to normal production tolerances.
- : B + bus.
- : B - bus.
- : signal path.
- No mark : with PAL colour-bar signal sreceived or common voltage.
- For the respective voltage ratings in SECAM, NTSC 3.58, NTSC 4.43 S-VIDEO, and ANALOG RGB modes, see the table

Reference information

| | | |
|-----------|---------|--------------------------|
| RESISTOR | : RN | METAL FILM |
| | : RC | SOLID |
| | : FPRD | NONFLAMMABLE CARBON |
| | : FUSE | NONFLAMMABLE FUSIBLE |
| | : RW | NONFLAMMABLE WIREWOUND |
| | : RS | NONFLAMMABLE METAL OXIDE |
| | : RB | NONFLAMMABLE CEMENT |
| COIL | : LF-8L | MICRO INDUCTOR |
| CAPACITOR | : TA | TANTALUM |
| | : PS | STYROL |
| | : PP | POLYPROPYLENE |
| | : PT | MYLAR |
| | : MPS | METALIZED POLYESTER |
| | : MPP | METALIZED POLYPROPYLENE |
| | : ALB | BIPOLAR |
| | : ALT | HIGH TEMPERATURE |
| | : ALR | HIGH RIPPLE |

Note: The components identified by shading and mark are critical for safety. Replace only with part number specified.

Note: Les composants identifiés par une trame et par une marque sont d'une importance critique pour la sécurité. Ne les remplacer que par des pièces de numéro spécifié.

A

MICON, RGB-MATRIX, DAC,
ON SCREEN DISPLAY, ON/OFF MUTE,
VOL OFF SW, BLACK-SAMPLING, RGB SW

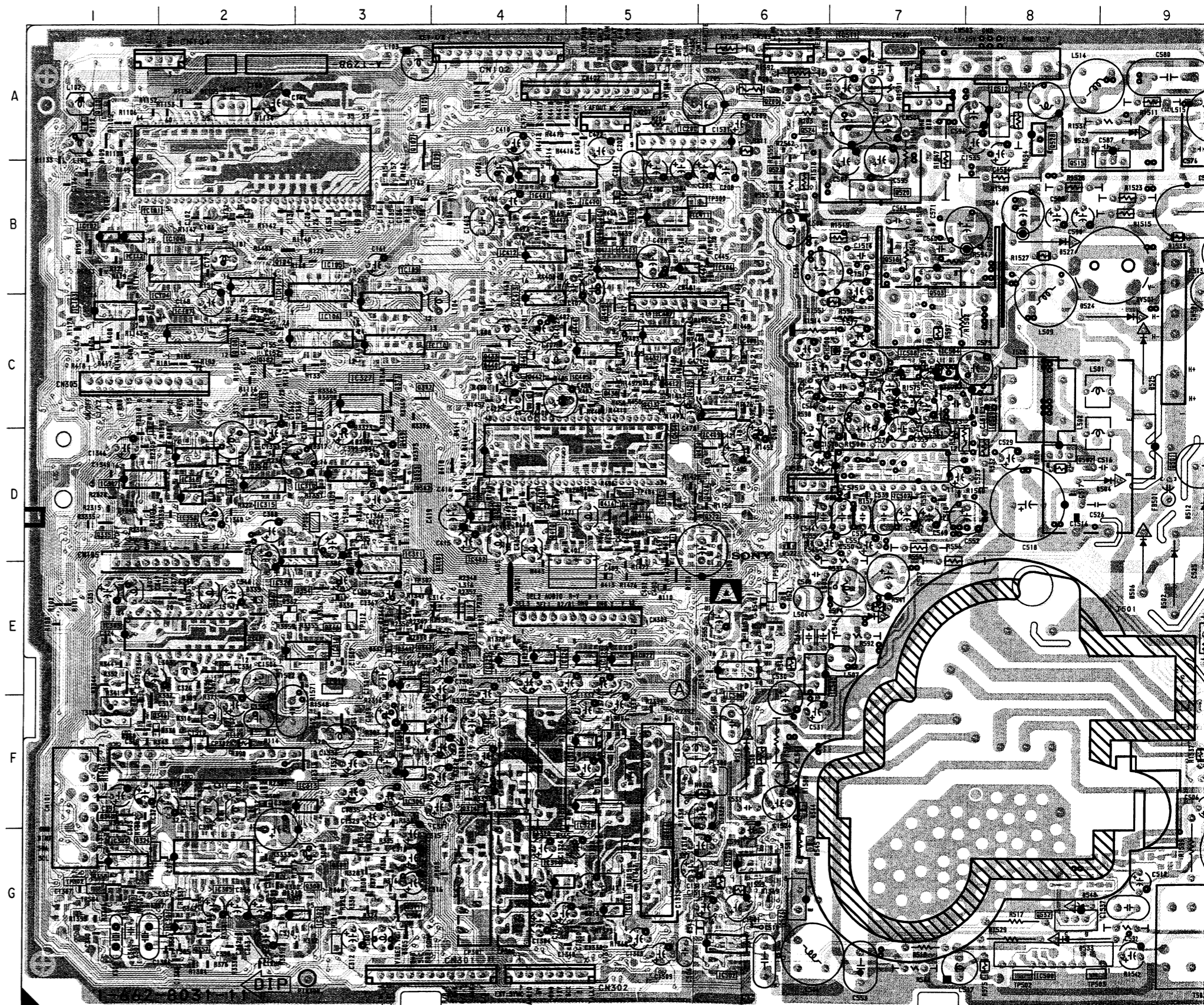
CHROMA DEMOD, SECAM CHROMA SELECT, SYSTEM SW,
SYNC SELECT, B/B-Y SW, R/R-Y SW, G/Y SW,
AUDIO SELECT, SECAM DECODER, HOLD AMP

H/V OUT, DEFLECTION SYSTEM,
AUDIO OUT

**A BOARD
(COMPONENT SIDE)**

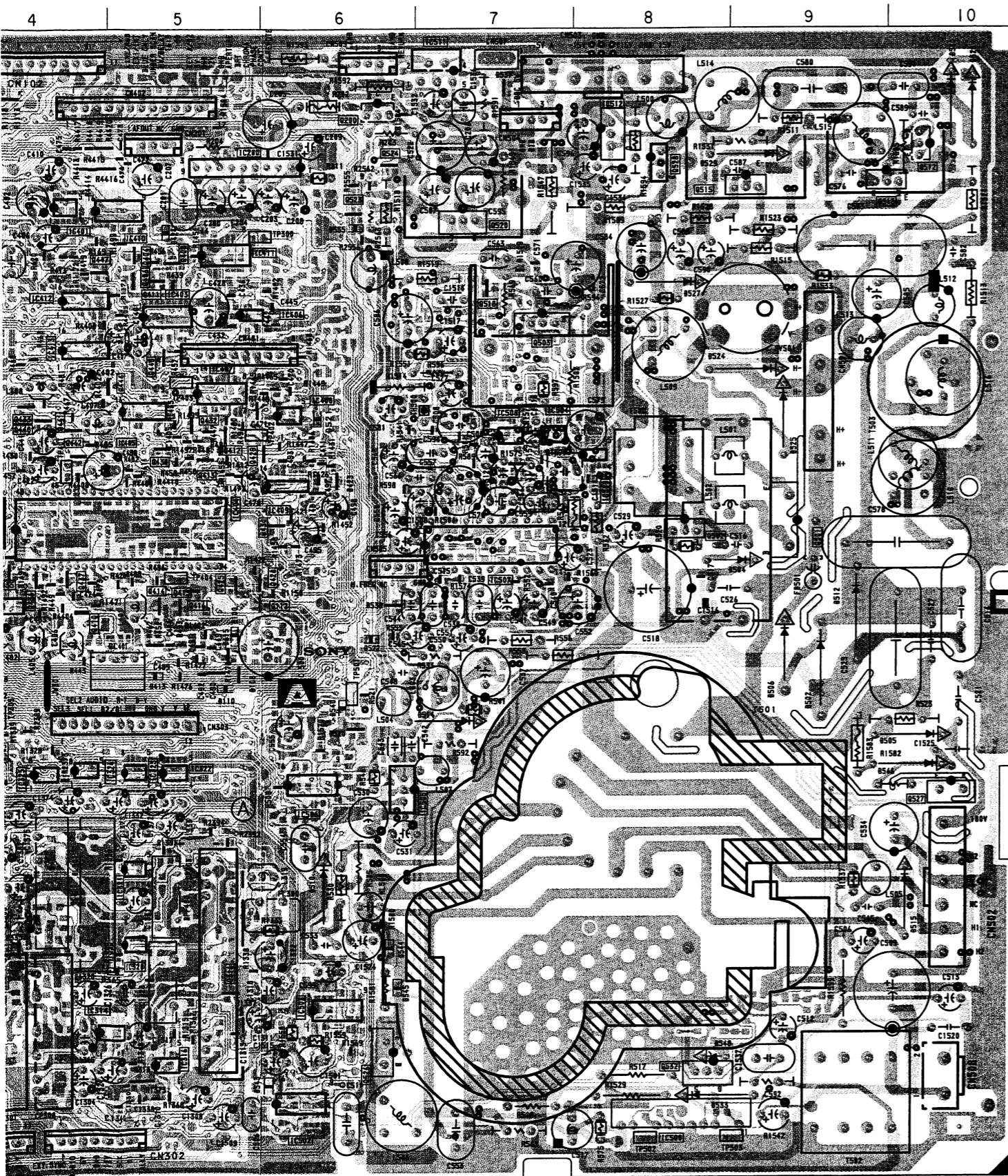
| IC | | Q108 | C-2 | Q527 | E-10 |
|------------|-----|------|------|-------------------|------|
| | | Q109 | A-3 | Q528 | A-8 |
| | | Q110 | A-1 | Q532 | G-8 |
| | | Q112 | D-6 | DIODE | |
| IC101 | B-2 | Q200 | A-6 | D100 | D-5 |
| IC102 | B-2 | Q300 | G-3 | D104 | B-1 |
| IC103 | C-1 | Q308 | G-3 | D105 | B-1 |
| IC104 | B-2 | Q311 | G-3 | D106 | B-4 |
| IC105 | B-3 | Q314 | F-4 | D108 | E-5 |
| IC106 | C-3 | Q316 | F-5 | D109 | A-1 |
| IC107 | C-2 | Q320 | E-3 | D110 | E-5 |
| IC109 | C-3 | Q324 | G-1 | D112 | A-1 |
| IC110 | C-3 | Q335 | D-1 | D114 | F-2 |
| IC111 | B-2 | Q340 | F-1 | D300 | G-2 |
| IC112 | B-2 | Q341 | E-3 | D301 | D-2 |
| IC200 | A-5 | Q342 | E-3 | D305 | G-3 |
| IC301 | G-2 | Q343 | E-4 | D308 | F-2 |
| IC302 | G-3 | Q346 | F-1 | D313 | G-5 |
| IC303 | E-1 | Q347 | E-2 | D314 | C-1 |
| IC304 | G-1 | Q348 | E-2 | D327 | D-3 |
| IC305 | G-2 | Q353 | D-3 | D332 | E-3 |
| IC306 | F-3 | Q354 | E-3 | D335 | F-1 |
| IC309 | F-3 | Q355 | F-5 | D336 | F-1 |
| IC310 | D-3 | Q356 | D-2 | D338 | E-3 |
| IC311 | E-3 | Q357 | G-2 | D339 | E-2 |
| IC312 | E-3 | Q358 | G-1 | D360 | C-3 |
| IC313 | F-2 | Q359 | G-1 | D361 | C-3 |
| IC314 | G-4 | Q360 | D-2 | D362 | E-2 |
| IC315 | D-2 | Q362 | D-3 | D365 | G-4 |
| IC316 | G-5 | Q365 | E-3 | D381 | D-2 |
| IC317 | D-1 | Q366 | E-3 | D406 | C-1 |
| IC318 | D-2 | Q372 | C-3 | D413 | E-5 |
| IC320 | F-5 | Q373 | C-3 | D414 | D-4 |
| IC321 | F-5 | Q374 | C-3 | D415 | D-5 |
| IC322 | E-5 | Q404 | B-5 | D416 | D-4 |
| IC323 | E-5 | Q406 | B-5 | D417 | D-4 |
| IC324 | E-4 | Q408 | B-5 | D418 | D-4 |
| IC325 | E-4 | Q410 | D-4 | D423 | C-6 |
| IC326 | E-2 | Q411 | B-5 | D424 | B-5 |
| IC327 | C-3 | Q412 | C-5 | D502 | F-9 |
| IC350 | D-2 | Q413 | C-5 | D504 | D-9 |
| IC401 | B-4 | Q414 | D-5 | D505 | E-10 |
| IC402 | D-4 | Q415 | D-5 | D506 | D-9 |
| IC403 | B-5 | Q416 | D-5 | D510 | F-6 |
| IC404 | D-4 | Q425 | D-5 | D512 | D-9 |
| IC405 | C-5 | Q426 | D-6 | D514 | E-7 |
| IC406 | B-5 | Q429 | C-5 | D515 | F-10 |
| IC407 | C-5 | Q430 | D-6 | D520 | E-6 |
| IC408 | C-6 | Q432 | C-5 | D521 | C-6 |
| IC409 | C-6 | Q433 | C-4 | D522 | D-6 |
| IC410 | B-5 | Q435 | D-4 | D524 | C-8 |
| IC411 | B-5 | Q436 | D-4 | D525 | C-9 |
| IC412 | B-4 | Q437 | D-4 | D527 | B-8 |
| IC413 | C-4 | Q438 | C-5 | D528 | A-10 |
| IC500 | G-8 | Q440 | C-4 | D529 | A-8 |
| IC502 | G-6 | Q441 | C-4 | D530 | A-10 |
| IC503 | G-6 | Q442 | C-4 | D533 | G-8 |
| IC504 | C-7 | Q445 | C-5 | D535 | B-6 |
| IC505 | E-6 | Q446 | C-5 | D537 | A-7 |
| IC506 | E-6 | Q447 | B-4 | D538 | D-6 |
| IC507 | D-7 | Q449 | D-3 | D540 | E-6 |
| IC508 | C-7 | Q501 | D-9 | D541 | F-3 |
| IC509 | C-8 | Q502 | D-8 | D543 | G-6 |
| IC510 | E-3 | Q503 | B-7 | D544 | F-6 |
| IC511 | A-7 | Q512 | A-10 | D545 | G-6 |
| IC512 | A-8 | Q513 | A-9 | D546 | E-10 |
| TRANSISTOR | | Q515 | A-8 | D548 | G-8 |
| Q102 | C-2 | Q518 | B-7 | VARIABLE RESISTOR | |
| Q103 | C-2 | Q520 | B-7 | RV501 | B-9 |
| Q104 | B-2 | Q523 | B-6 | | |
| Q105 | A-3 | Q524 | A-6 | | |
| Q107 | A-3 | Q525 | A-6 | | |
| | | Q526 | G-6 | | |

-A BOARD- <Component Side>



• : Pattern from the side
• : Pattern of the rear side

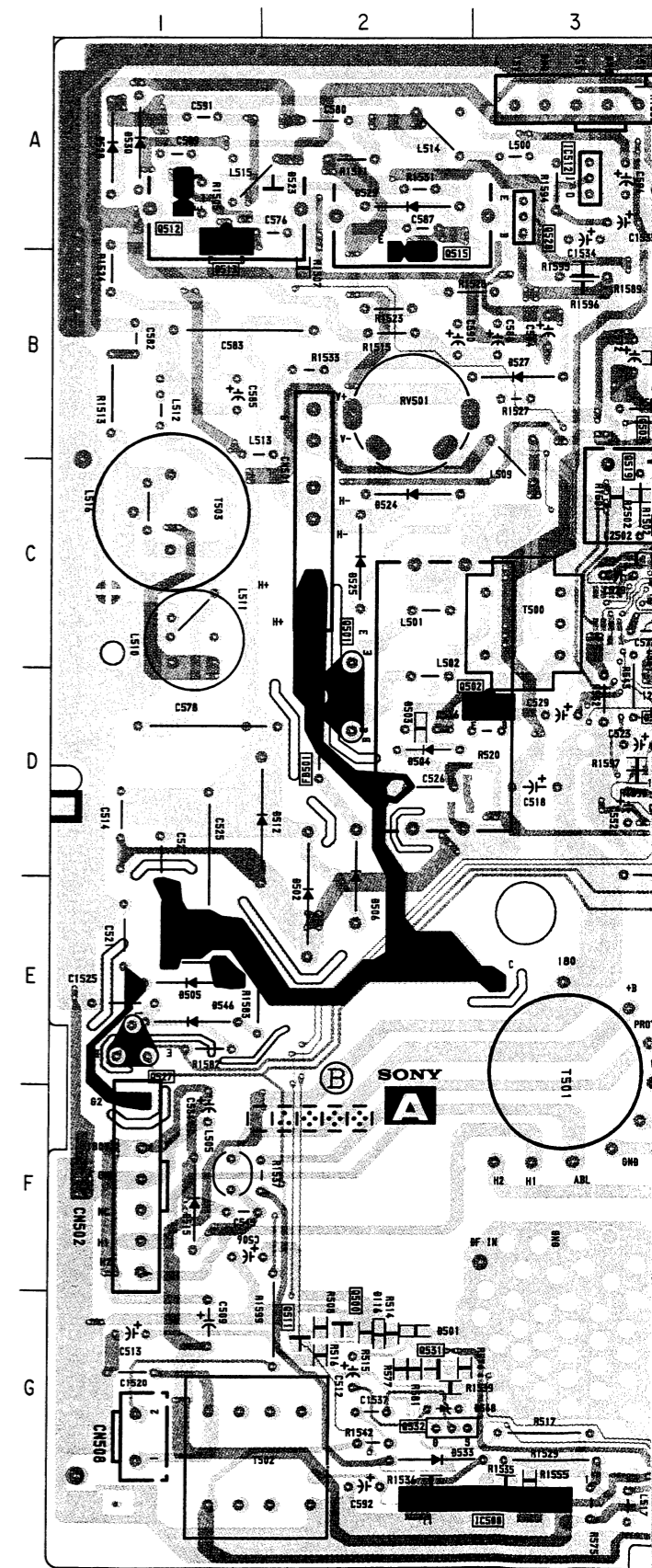
- : Pattern from the side which enables seeing.
- : Pattern of the rear side.



**A BOARD
(CONDUCTOR SIDE)**

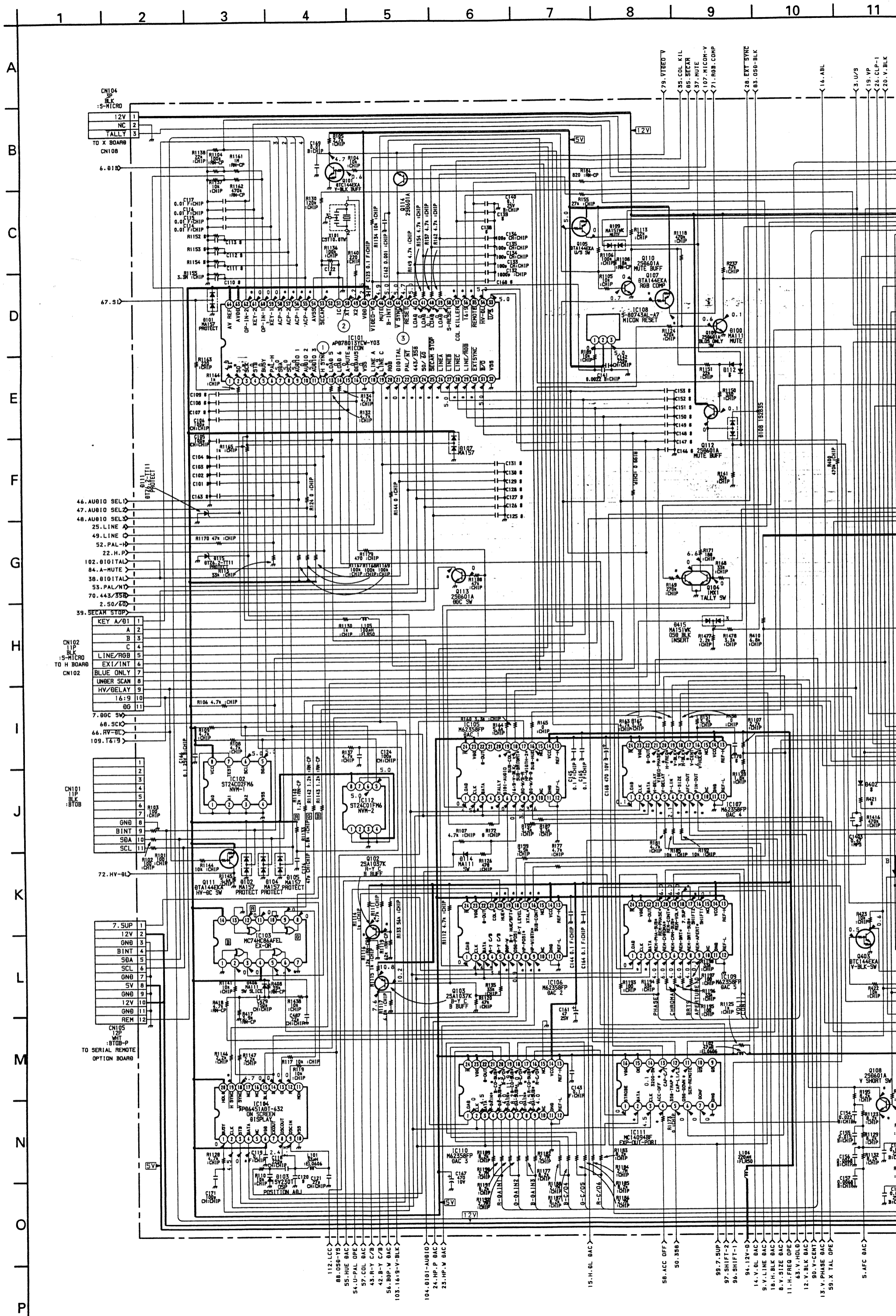
| IC | | Q405 C-6 | | D322 D-9 | |
|------------|-----|----------|------|-------------------|-----|
| IC101 | A-9 | Q407 | C-7 | D323 | C-9 |
| IC108 | B-8 | Q409 | D-7 | D324 | E-9 |
| IC200 | A-5 | Q417 | C-5 | D325 | D-8 |
| IC303 | E-9 | Q418 | B-5 | D326 | E-9 |
| IC404 | D-6 | Q419 | C-6 | D333 | C-9 |
| IC500 | G-3 | Q420 | C-6 | D337 | E-8 |
| IC505 | E-4 | Q421 | B-5 | D344 | D-8 |
| IC507 | D-4 | Q422 | B-5 | D345 | E-7 |
| IC511 | A-4 | Q423 | C-5 | D346 | E-7 |
| IC512 | A-3 | Q424 | C-5 | D347 | E-7 |
| TRANSISTOR | | Q428 | D-6 | D363 | E-8 |
| | | Q431 | B-5 | D364 | E-8 |
| | | Q434 | C-5 | D401 | B-7 |
| | | Q439 | C-6 | D402 | B-7 |
| | | Q444 | B-5 | D404 | D-6 |
| | | Q448 | F-9 | D405 | B-5 |
| | | Q500 | G-2 | D407 | D-7 |
| | | Q501 | D-2 | D410 | C-5 |
| | | Q502 | D-3 | D411 | B-6 |
| | | Q503 | B-3 | D421 | C-5 |
| | | Q505 | E-5 | D422 | C-5 |
| | | Q506 | B-4 | D425 | C-5 |
| | | Q507 | E-5 | D427 | B-6 |
| | | Q508 | C-4 | D500 | G-5 |
| | | Q509 | G-5 | D501 | G-2 |
| | | Q510 | C-4 | D502 | E-2 |
| | | Q511 | G-2 | D503 | D-2 |
| | | Q512 | A-1 | D504 | D-2 |
| | | Q513 | A-1 | D505 | E-1 |
| | | Q514 | B-4 | D506 | E-2 |
| | | Q515 | B-2 | D507 | G-5 |
| | | Q516 | C-4 | D508 | F-5 |
| | | Q517 | C-4 | D509 | G-5 |
| | | Q519 | C-3 | D510 | F-5 |
| | | Q520 | B-4 | D511 | E-5 |
| | | Q522 | E-5 | D512 | D-2 |
| | | Q525 | A-4 | D513 | E-5 |
| | | Q526 | G-4 | D514 | E-4 |
| | | Q527 | E-1 | D515 | F-1 |
| | | Q528 | A-3 | D516 | F-5 |
| | | Q529 | D-3 | D517 | E-4 |
| | | Q530 | D-4 | D518 | E-5 |
| | | Q531 | G-2 | D519 | C-4 |
| | | Q532 | G-2 | D523 | A-2 |
| | | Q2501 | C-4 | D524 | C-2 |
| DIODE | | D101 | B-10 | D525 | C-2 |
| | | D102 | B-9 | D526 | B-4 |
| | | D103 | B-9 | D527 | B-3 |
| | | D107 | B-9 | D528 | A-1 |
| | | D111 | B-9 | D529 | A-2 |
| | | D115 | B-9 | D530 | A-1 |
| | | D116 | G-2 | D531 | B-4 |
| | | D200 | A-4 | D532 | B-4 |
| | | D301 | G-8 | D533 | G-2 |
| | | D303 | F-7 | D534 | B-4 |
| | | D304 | G-7 | D536 | A-5 |
| | | D307 | G-8 | D542 | B-4 |
| | | D309 | G-8 | D546 | E-1 |
| | | D310 | G-8 | D547 | D-4 |
| | | D311 | G-9 | D548 | G-2 |
| | | D315 | E-8 | VARIABLE RESISTOR | |
| | | D317 | D-9 | | |
| | | D320 | D-9 | RV501 | B-2 |

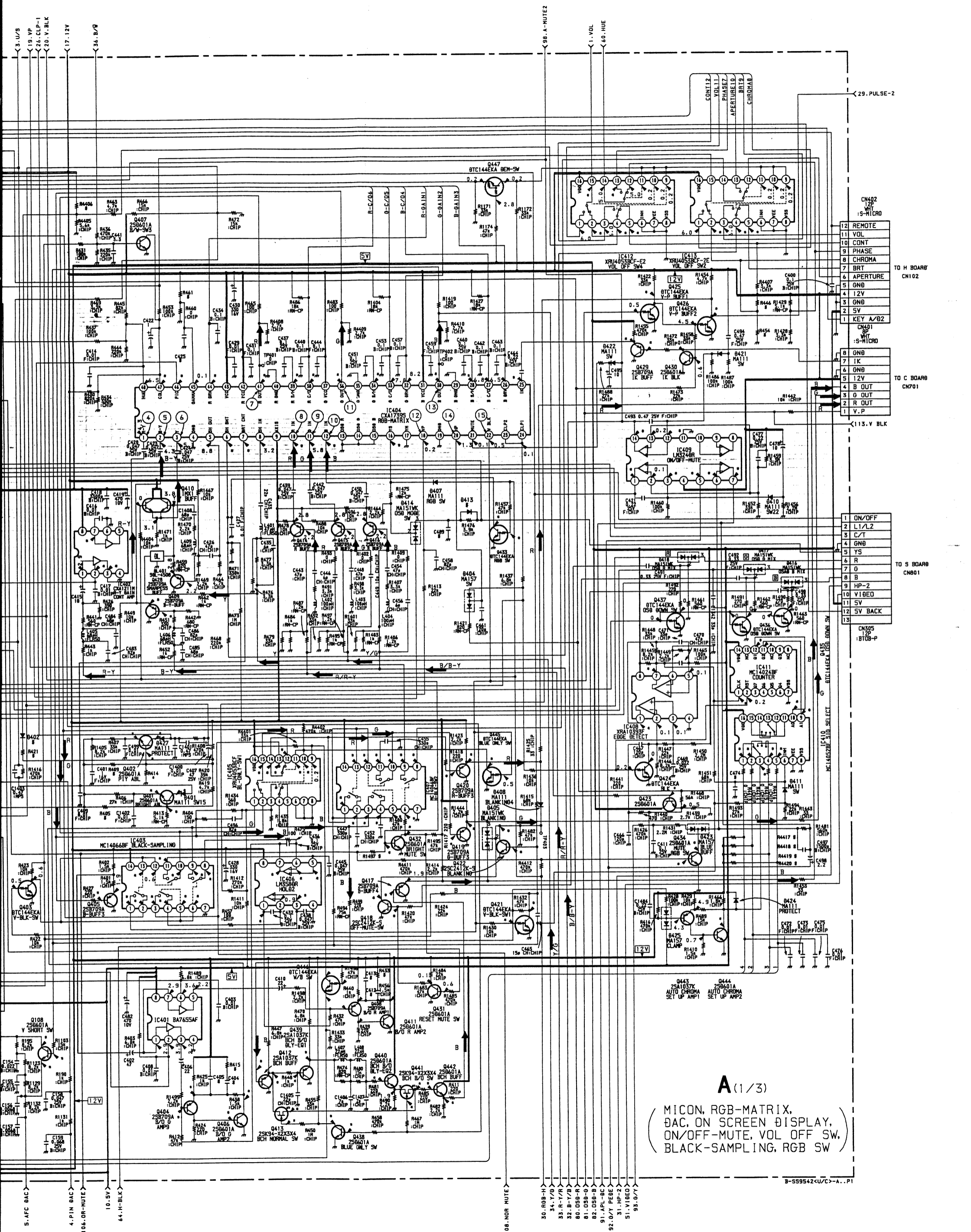
-A BOARD- <Conductor Side>



A BOARD
(CONDUCTOR SIDE)

| IC | | Q405 | C-6 | D322 | D-9 |
|------------|------|-------|------|-------------------|-------|
| IC101 | A-9 | Q407 | C-7 | D323 | C-9 |
| IC108 | B-8 | Q409 | D-7 | D324 | E-9 |
| IC200 | A-5 | Q417 | C-5 | D325 | D-8 |
| IC303 | E-9 | Q418 | B-5 | D326 | E-9 |
| IC404 | D-6 | Q419 | C-6 | D333 | C-9 |
| IC500 | G-3 | Q420 | C-6 | D337 | E-8 |
| IC505 | E-4 | Q421 | B-5 | D344 | D-8 |
| IC507 | D-4 | Q422 | B-5 | D345 | E-7 |
| IC511 | A-4 | Q423 | C-5 | D346 | E-7 |
| IC512 | A-3 | Q424 | C-5 | D347 | E-7 |
| TRANSISTOR | | Q428 | D-6 | D363 | E-8 |
| | | Q431 | B-5 | D364 | E-8 |
| | | Q434 | C-5 | D401 | B-7 |
| | | Q439 | C-6 | D402 | B-7 |
| Q101 | A-9 | Q444 | B-5 | D404 | D-6 |
| Q111 | C-10 | Q448 | F-9 | D405 | B-5 |
| Q113 | A-7 | Q500 | G-2 | D407 | D-7 |
| Q114 | A-8 | Q501 | D-2 | D410 | C-5 |
| Q200 | A-5 | Q502 | D-3 | D411 | B-6 |
| Q201 | A-5 | Q503 | B-3 | D421 | C-5 |
| Q301 | G-8 | Q505 | E-5 | D422 | C-5 |
| Q302 | G-10 | Q506 | B-4 | D425 | C-5 |
| Q303 | G-6 | Q507 | E-5 | D427 | B-6 |
| Q305 | G-8 | Q508 | C-4 | D500 | G-5 |
| Q306 | G-7 | Q509 | G-5 | D501 | G-2 |
| Q307 | G-8 | Q510 | C-4 | D502 | E-2 |
| Q309 | G-8 | Q511 | G-2 | D503 | D-2 |
| Q310 | G-7 | Q512 | A-1 | D504 | D-2 |
| Q312 | G-8 | Q513 | A-1 | D505 | E-1 |
| Q313 | G-8 | Q514 | B-4 | D506 | E-2 |
| Q315 | G-8 | Q515 | B-2 | D507 | G-5 |
| Q318 | G-7 | Q516 | C-4 | D508 | F-5 |
| Q319 | F-7 | Q517 | C-4 | D509 | G-5 |
| Q321 | G-8 | Q519 | C-3 | D510 | F-5 |
| Q322 | G-6 | Q520 | B-4 | D511 | E-5 |
| Q323 | G-10 | Q522 | E-5 | D512 | D-2 |
| Q325 | F-8 | Q525 | A-4 | D513 | E-5 |
| Q326 | F-6 | Q526 | G-4 | D514 | E-4 |
| Q327 | F-6 | Q527 | E-1 | D515 | F-1 |
| Q328 | G-9 | Q528 | A-3 | D516 | F-5 |
| Q329 | G-9 | Q529 | D-3 | D517 | E-4 |
| Q330 | F-9 | Q530 | D-4 | D518 | E-5 |
| Q331 | F-9 | Q531 | G-2 | D519 | C-4 |
| Q332 | G-10 | Q532 | G-2 | D523 | A-2 |
| Q333 | D-9 | Q2501 | C-4 | D524 | C-2 |
| Q334 | F-9 | DIODE | | D525 | C-2 |
| Q336 | E-10 | | | D526 | B-4 |
| Q338 | C-8 | | | D527 | B-3 |
| Q339 | D-8 | | | D528 | A-1 |
| Q345 | D-8 | D101 | B-10 | D529 | A-2 |
| Q349 | E-9 | D102 | B-9 | D530 | A-1 |
| Q350 | D-8 | D103 | B-9 | D531 | B-4 |
| Q351 | D-8 | D107 | B-9 | D532 | B-4 |
| Q352 | D-8 | D111 | B-9 | D533 | G-2 |
| Q355 | F-5 | D115 | B-9 | D534 | B-4 |
| Q361 | F-8 | D116 | G-2 | D536 | A-5 |
| Q363 | G-9 | D200 | A-4 | D542 | B-4 |
| Q364 | D-8 | D301 | G-8 | D546 | E-1 |
| Q367 | E-8 | D303 | F-7 | D547 | D-4 |
| Q368 | E-8 | D304 | G-7 | D548 | G-2 |
| Q369 | E-8 | D307 | G-8 | VARIABLE RESISTOR | |
| Q375 | D-8 | D309 | G-8 | | |
| Q401 | B-6 | D310 | G-8 | | |
| Q402 | B-6 | D311 | G-9 | | |
| Q403 | B-6 | D315 | E-8 | | |
| | | D317 | D-9 | | |
| | | D320 | D-9 | | |
| | | | | | RV501 |

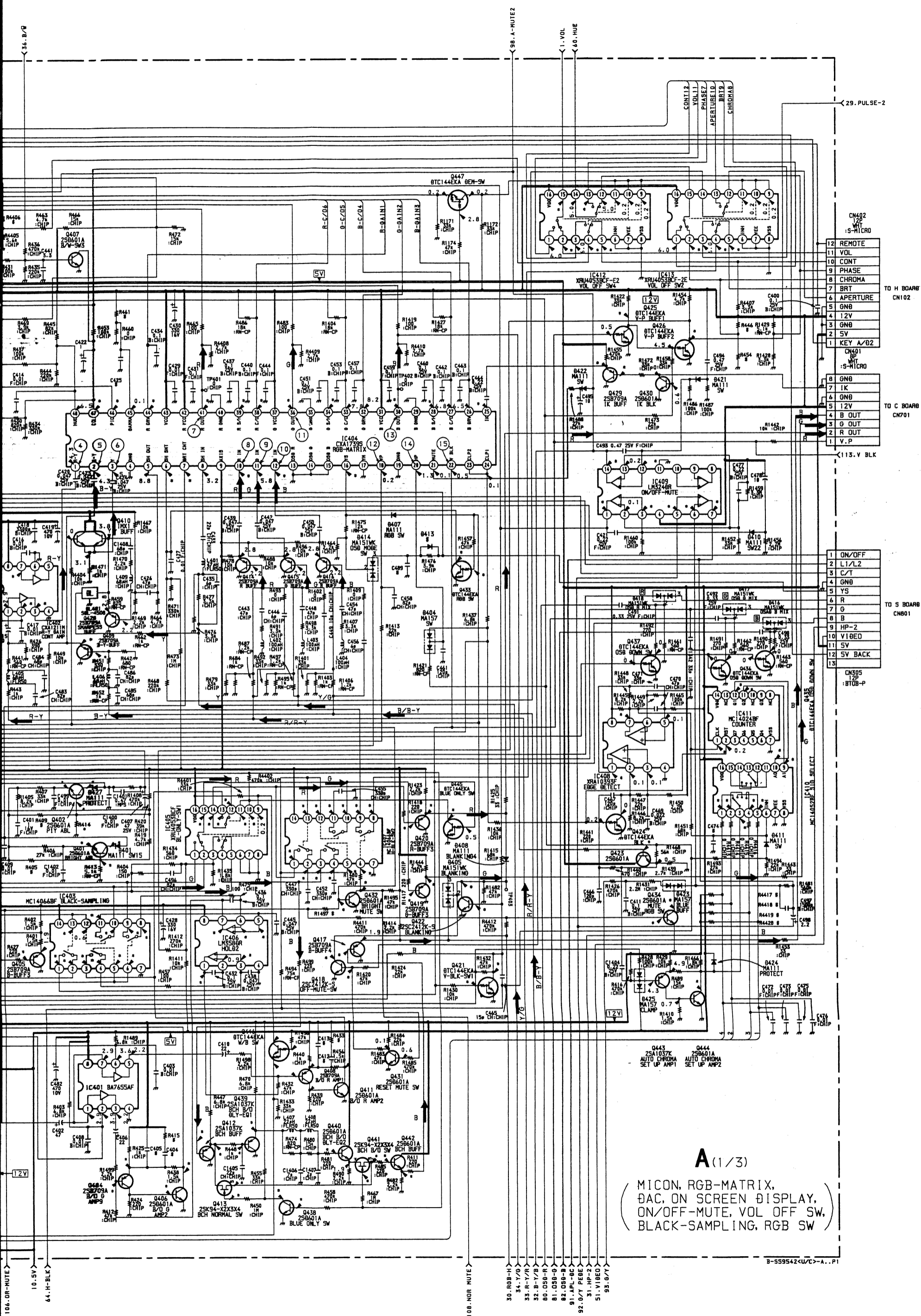




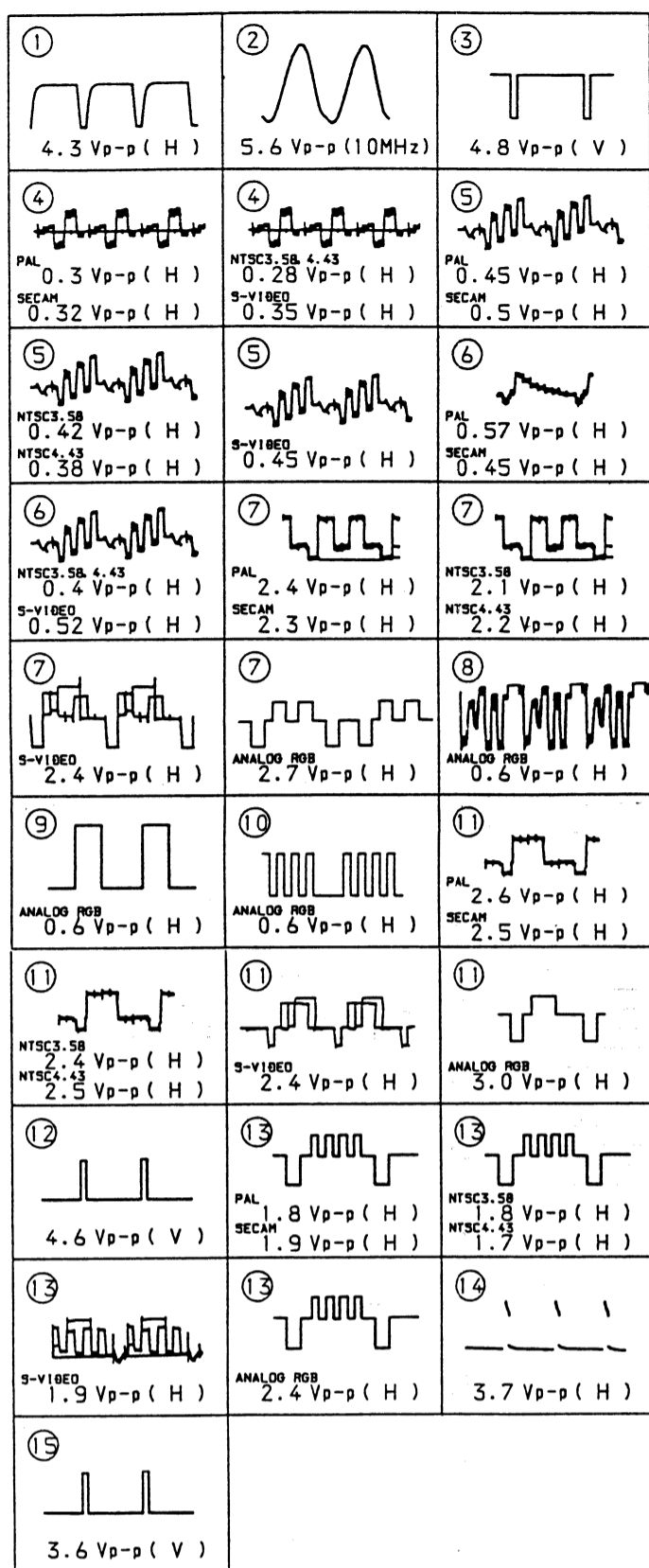
A (1/3)

MICON, RGB-MATRIX,
DAC, ON SCREEN DISPLAY,
ON/OFF-MUTE, VOL OFF SW,
BLACK-SAMPLING, RGB SW

B-559542<U/C>-A..PI



A BOARD WAVEFORMS



A BOARD (1/3) * MARK LIST

| | PVM-14M4U/E/A | PVM-14M2U/E/A |
|-------|---------------|---------------|
| CN305 | 13P: BTOB-P | 12P: BTOB-P |
| R407 | 33k: CHIP | 15: CHIP |
| R414 | # | 3k: CHIP |

: Not Used

A BOARD (1/3) * MARK

| | PAL | SECAM | NTSC 3.58 | NTSC 4.43 | S-VIDEO | ANALOG RGB |
|---------|------|-------|-----------|-----------|---------|------------|
| IC101 ① | 2.3 | 2.4 | 2.2 | 2.2 | 2.0 | 2.3 |
| ② | 4.5 | 4.6 | 4.5 | 4.4 | 4.4 | 4.5 |
| ③ | 4.1 | 3.4 | 0 | 0.1 | 0 | 0 |
| ④ | 3.4 | 3.5 | 3.5 | 3.5 | 3.1 | 3.5 |
| ⑤ | 0 | 0 | 0 | 0 | 4.8 | 0 |
| ⑥ | 0 | 0 | 0 | 0 | 0 | 4.9 |
| ⑦ | 4.9 | 5.0 | 0 | 0 | 0 | 0 |
| ⑧ | 5.0 | 5.0 | 0 | 5.0 | 0 | 0 |
| ⑨ | 5.0 | 5.0 | 0 | 0 | 0 | 0 |
| ⑩ | 0 | 5.0 | 0 | 0 | 0 | 0 |
| ⑪ | 0.1 | 0 | 0.1 | 0.1 | 4.9 | 0.1 |
| ⑫ | 5.0 | 5.0 | 5.0 | 5.0 | 0 | 5.0 |
| ⑬ | 5.0 | 5.0 | 5.0 | 5.0 | 4.9 | 0.1 |
| ⑭ | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 0.1 |
| ⑮ | 4.2 | 4.1 | 4.6 | 5.0 | 3.9 | 3.9 |
| ⑯ | 4.0 | 4.0 | 4.6 | 5.0 | 3.6 | 3.7 |
| ⑰ | 0.3 | 4.4 | 0.1 | 0.7 | 0.1 | 0.1 |
| ⑱ | 4.2 | 0.1 | 4.3 | 4.2 | 4.2 | 4.3 |
| ⑲ | 4.0 | 3.4 | 3.6 | 3.7 | 3.9 | 4.0 |
| ⑳ | 0.5 | 0.9 | 1.0 | 0.8 | 3.1 | 1.9 |
| ㉑ | 3.0 | 2.5 | 2.6 | 2.3 | 3.8 | 2.2 |
| ㉒ | 3.6 | 3.0 | 2.9 | 3.2 | 3.9 | 4.0 |
| ㉓ | 4.0 | 4.0 | 4.0 | 4.0 | 2.9 | 4.0 |
| IC103 ① | 0.2 | 0 | 0.2 | 0.2 | 0 | 0 |
| IC104 ① | 2.3 | 2.3 | 2.2 | 2.2 | 2.0 | 2.3 |
| ② | 3.5 | 3.5 | 3.5 | 3.5 | 3.1 | 3.5 |
| IC105 ① | 2.3 | 2.3 | 2.2 | 2.2 | 0 | 2.3 |
| ② | 0 | 0.1 | 0.1 | 0 | 11.8 | 0 |
| ③ | 2.6 | 2.7 | 2.7 | 2.6 | 2.8 | 2.6 |
| ④ | 5.4 | 5.4 | 5.4 | 5.4 | 6.6 | 8.1 |
| IC106 ① | 2.3 | 2.3 | 2.2 | 2.2 | 2.1 | 2.3 |
| ② | 5.4 | 5.4 | 5.4 | 5.4 | 4.1 | 5.4 |
| ③ | 2.4 | 2.4 | 2.4 | 2.4 | 0.6 | 2.4 |
| ④ | 7.8 | 7.8 | 7.8 | 7.7 | 5.5 | 7.8 |
| ⑤ | 5.1 | 5.1 | 5.1 | 5.1 | 4.0 | 5.1 |
| ⑥ | 0.1 | 10.5 | 10.5 | 10.5 | 10.9 | 10.5 |
| ⑦ | 3.1 | 3.1 | 2.6 | 3.1 | 2.7 | 2.5 |
| ⑧ | 2.4 | 4.6 | 2.1 | 2.2 | 2.1 | 3.2 |
| ⑨ | 6.3 | 6.3 | 11.9 | 9.0 | 10.7 | 3.7 |
| ⑩ | 3.6 | 3.6 | 4.8 | 3.6 | 4.3 | 9.5 |
| ⑪ | 0.8 | 1.8 | 0.4 | 0.3 | 2.4 | 3.1 |
| IC107 ① | 4.6 | 4.5 | 4.5 | 4.5 | 4.4 | 4.5 |
| ② | 2.3 | 2.3 | 2.2 | 0 | 2.1 | 0 |
| ③ | 2.8 | 2.8 | 2.8 | 2.8 | 3.3 | 2.8 |
| ④ | 1.5 | 1.4 | 1.4 | 1.4 | 2.3 | 1.4 |
| ⑤ | 2.9 | 2.9 | 2.9 | 2.9 | 2.1 | 2.9 |
| ⑥ | 2.6 | 2.6 | 2.6 | 2.6 | 2.9 | 2.6 |
| ⑦ | 2.9 | 2.9 | 2.9 | 2.9 | 2.6 | 2.9 |
| ⑧ | 2.6 | 2.6 | 2.8 | 2.8 | 2.8 | 2.8 |
| ⑨ | 3.2 | 3.2 | 5.4 | 5.4 | 5.3 | 5.4 |
| ⑩ | 4.5 | 4.6 | 5.0 | 5.0 | 3.7 | 5.0 |
| ⑪ | 6.3 | 6.3 | 6.1 | 6.1 | 6.0 | 6.1 |
| IC109 ① | 4.6 | 4.5 | 4.5 | 4.5 | 4.4 | 4.4 |
| ② | 2.3 | 2.3 | 2.2 | 2.2 | 2.1 | 2.3 |
| ③ | 11.9 | 11.9 | 11.9 | 11.9 | 11.9 | 0.1 |
| ④ | 11.9 | 11.9 | 0.1 | 0 | 0.1 | 11.8 |
| IC110 ① | 2.3 | 2.4 | 2.2 | 2.2 | 2.0 | 2.2 |
| ② | 7.2 | 7.2 | 7.2 | 7.2 | 8.3 | 7.2 |
| ③ | 5.8 | 5.8 | 5.8 | 5.8 | 6.2 | 5.8 |
| ④ | 11.9 | 11.9 | 11.9 | 11.9 | 7.8 | 11.9 |
| ⑤ | 0 | 7.9 | 7.9 | 7.9 | 7.8 | 7.9 |
| ⑥ | 3.7 | 3.7 | 3.5 | 3.5 | 3.5 | 3.6 |
| IC111 ① | 0.3 | 0.3 | 0.3 | 0.3 | 0 | 0.3 |
| ② | 0.2 | 0 | 0.1 | 0.1 | 0.1 | 0.1 |
| ③ | 0 | 5.0 | 5.0 | 5.0 | 0 | 5.0 |
| ④ | 5.0 | 5.0 | 5.0 | 5.0 | 0 | 5.0 |
| IC402 ① | 3.1 | 3.9 | 2.9 | 3.0 | 3.0 | 3.6 |
| ② | 0 | 2.3 | 2.3 | 0 | 2.2 | 2.2 |
| ③ | 2.9 | 2.9 | 2.9 | 0 | 2.9 | 2.9 |
| IC403 ① | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0 |
| ② | 1.2 | 1.2 | 0.8 | 0.8 | 1.2 | 0.9 |
| ③ | 1.4 | 1.3 | 0.9 | 0.9 | 1.3 | 0 |
| ④ | 0.8 | 0.8 | 0.9 | 0.9 | 0.8 | 1.4 |
| ⑤ | 0.6 | 0.5 | 0.6 | 0.6 | 0 | 0.6 |
| ⑥ | 0.5 | 0.6 | 0.6 | 0.6 | 0.6 | 0 |
| ⑦ | 1.0 | 1.0 | 1.0 | 1.0 | 0.8 | 1.1 |
| ⑧ | 1.6 | 1.5 | 1.1 | 1.1 | 1.4 | 1.6 |
| ⑨ | 1.4 | 1.4 | 1.0 | 1.0 | 1.2 | 1.5 |
| ⑩ | 0.9 | 1.0 | 1.0 | 1.0 | 0.8 | 1.1 |
| ⑪ | 0.6 | 0.6 | 0.6 | 0.6 | 0 | 0.6 |
| IC404 ① | 3.0 | 3.0 | 3.0 | 3.0 | 4.5 | 0 |
| ② | 4.9 | 4.9 | 4.9 | 4.9 | 4.7 | 6.1 |
| ③ | 5.6 | 5.6 | 5.6 | 5.6 | 5.6 | 5.8 |
| ④ | 5.6 | 5.6 | 5.6 | 5.6 | 5.6 | 5.8 |
| ⑤ | 0 | 0.1 | 0 | 0 | 0 | 4.4 |
| ⑥ | 3.8 | 4.0 | 4.1 | 4.2 | 4.0 | 3.6 |
| ⑦ | 7.1 | 6.6 | 8.0 | 8.0 | 7.7 | 7.9 |
| ⑧ | 1.4 | 1.3 | 1.2 | 1.1 | 1.2 | 1.4 |
| ⑨ | 7.0 | 7.3 | 8.1 | 7.8 | 7.8 | 7.8 |
| ⑩ | 1.4 | 1.3 | 1.2 | 1.1 | 1.2 | 1.5 |
| ⑪ | 7.8 | 7.8 | 7.7 | 7.8 | 8.0 | 7.7 |
| ⑫ | 6.9 | 7.1 | 7.8 | 7.7 | 7.6 | 7.6 |
| ⑬ | 1.2 | 1.2 | 1.0 | 1.0 | 1.2 | 1.3 |
| ⑭ | 7.2 | 7.2 | 7.2 | 7.2 | 8.3 | 7.2 |
| ⑮ | 7.2 | 7.2 | 7.2 | 7.2 | 6.9 | 7.0 |
| ⑯ | 6.6 | 6.6 | 6.6 | 6.6 | 5.5 | 0 |
| IC405 ① | 1.6 | 1.5 | 1.1 | 1.3 | 1.4 | 1.6 |
| ② | 1.4 | 1.4 | 0.9 | 0 | 1.2 | 1.5 |
| ③ | 1.2 | 1.2 | 0.9 | 0 | 1.1 | 1.2 |
| ④ | 1.4 | 1.3 | 1.0 | 0 | 1.2 | 1.4 |
| ⑤ | 1.3 | 1.3 | 1.0 | 0 | 1.2 | 1.4 |
| ⑥ | 0.5 | 0.5 | 0.6 | 1.0 | 0.3 | 0.2 |
| ⑦ | 0.5 | 0.5 | 0.6 | 1.3 | 0.3 | 0.2 |
| ⑧ | 1.2 | 1.2 | 0.8 | 1.1 | 1.2 | 1.3 |
| ⑨ | 1.4 | 1.3 | 0.9 | 1.3 | 1.3 | 1.4 |
| ⑩ | 1.2 | 1.2 | 0.8 | 1.2 | 1.2 | 1.3 |
| ⑪ | 1.4 | 1.3 | 1.0 | 1.3 | 1.2 | 1.5 |
| IC406 ① | 4.8 | 5.1 | 4.8 | 4.8 | 4.8 | 5.1 |
| ② | 0.8 | 0 | 0.9 | 0.9 | 0.8 | 1.0 |
| ③ | 1.0 | 0.9 | 1.0 | 1.0 | 0.8 | 1.1 |
| ④ | 1.0 | 1.0 | 1.1 | 1.1 | 0.8 | 1.1 |
| ⑤ | 5.1 | 5.1 | 4.9 | 4.9 | 4.9 | 5.1 |
| IC407 ① | 1.2 | 1.2 | 0.9 | 1.2 | 1.2 | 1.3 |
| ② | 0.4 | -0.1 | 0.5 | 0.3 | 0.4 | 0.5 |
| ③ | 1.4 | 1.3 | 1.0 | 1.3 | 1.2 | 1.4 |
| ④ | 0.6 | 0 | 0.7 | 0.5 | 0.5 | 0.7 |
| ⑤ | 2.0 | 1.8 | 2.0 | 2.0 | 2.0 | 2.0 |
| ⑥ | 11.7 | 10.7 | 11.6 | 11.3 | 11.7 | 11.2 |
| ⑦ | 5.5 | 5.5 | 5.5 | 5.5 | 5.4 | 8.5 |
| ⑧ | 5.5 | 5.5 | 5.5 | 5.5 | 5.4 | 8.4 |
| ⑨ | 1.4 | 1.4 | 1.0 | 1.3 | 1.2 | 1.5 |
| ⑩ | 0.6 | -0.1 | 0.7 | 0.6 | 0.5 | 0.6 |
| ⑪ | 2.0 | 1.7 | 2.0 | 2.0 | 2.0 | 2.0 |
| ⑫ | 2.0 | 1.7 | 2.0 | 2.0 | 2.0 | 2.0 |
| IC408 ① | 3.1 | 2.9 | 2.9 | 3.1 | 3.7 | 3.4 |
| ② | 4.1 | 3.8 | 3.9 | 4.1 | 4.2 | 4.1 |
| IC409 ① | 0 | 8.8 | 9.0 | 9.4 | 0 | 7.5 |
| ② | 0 | 0.8 | 0.4 | 0.3 | 0.3 | 1.6 |
| ③ | 5.9 | 5.9 | 6.3 | 0 | 5.9 | 5.9 |
| ④ | 5.9 | 5.9 | 6.3 | 6.0 | 5.9 | 5.9 |
| ⑤ | 5.9 | 5.9 | 6.3 | 6.0 | 5.9 | 5.9 |
| ⑥ | 0.1 | 1.8 | 0.5 | 1.2 | 0.1 | 0 |
| ⑦ | 0 | 10.7 | 6.6 | 6.9 | 0 | 10.7 |

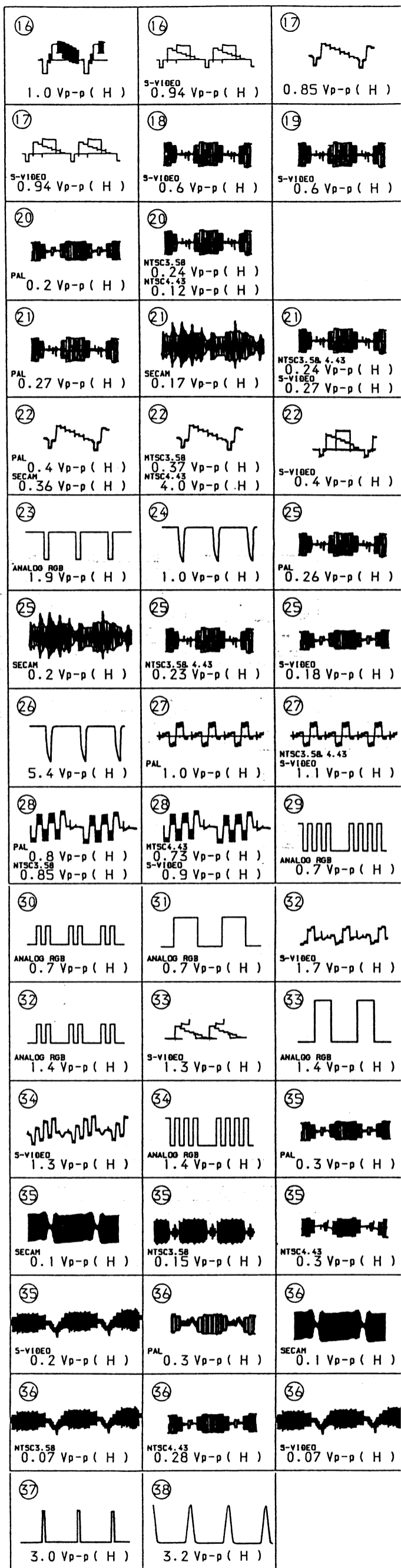
| | PAL | SECAM | NTSC 3.58 | NTSC 4.43 | S-VIDEO | ANALOG RGB |
|----------|------|-------|-----------|-----------|---------|------------|
| IC410 ① | 3.8 | 4.0 | 4.0 | 4.0 | 0 | 3.9 |
| ② | 3.0 | 3.1 | 2.4 | 3.1 | 0 | 4.0 |
| ③ | 1.3 | 0.7 | 1.4 | 1.6 | 2.3 | 1.5 |
| ④ | 3.5 | 3.6 | 3.0 | 3.8 | 3.9 | 3.9 |
| ⑤ | 0.6 | 1.3 | 1.1 | 1.1 | 3.1 | 1.7 |
| ⑥ | 4.0 | 4.0 | 4.0 | 3.9 | 0 | 0 |
| ⑦ | 0 | 2.0 | 1.9 | 1.8 | 2.5 | 1.4 |
| ⑧ | 2.0 | 2.3 | 2.3 | 2.0 | 1.8 | 3.0 |
| IC411 ① | 4.1 | 4.0 | 3.9 | 3.8 | 4.2 | 4.1 |
| ② | 1.8 | 2.0 | 1.9 | 1.8 | 2.5 | 1.3 |
| ③ | 2.0 | 2.3 | 2.3 | 2.1 | 1.8 | 3.0 |
| IC412 ② | 0.4 | 0.5 | 0.4 | 0.4 | 5.9 | 0.6 |
| ④ | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.3 |
| ⑤ | 9.0 | 8.9 | 9.0 | 8.9 | 8.9 | 8.3 |
| ⑥ | 6.0 | 6.0 | 6.0 | 6.0 | 6.0 | 0 |
| ⑦ | 0.4 | 0.5 | 0.4 | 0.4 | 5.9 | 0.5 |
| IC413 ② | 7.9 | 8.0 | 8.0 | 8.0 | 0 | 6.9 |
| ④ | 0 | 5.5 | 5.5 | 5.5 | 5.4 | 0 |
| ⑤ | 5.5 | 5.5 | 5.5 | 5.5 | 5.4 | 8.6 |
| ⑦ | 3.1 | 3.1 | 3.1 | 3.1 | 0 | 5.1 |
| ⑧ | 3.1 | 3.1 | 3.1 | 3.1 | 6.0 | 5.1 |
| ⑨ | 7.9 | 7.9 | 8.0 | 7.9 | 6.3 | 6.9 |
| Q102 B | 10.9 | 10.9 | 10.9 | 10.9 | 10.7 | 10.9 |
| C | 8.1 | 8.1 | 8.1 | 8.1 | 0 | 8.1 |
| E | 11.5 | 11.5 | 11.5 | 11.5 | 11.3 | 11.5 |
| Q104-I B | -0.2 | 0 | -0.2 | 0 | 0 | -0.2 |
| Q107 B | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 0.1 |
| C | 0 | 0 | 0 | 0 | 0 | 5.0 |
| Q108 C | 2.6 | 2.6 | 2.6 | 2.6 | 2.9 | 2.6 |
| E | 2.6 | 2.6 | 2.6 | 2.6 | 2.9 | 2.6 |
| Q111 B | 5.0 | 5.0 | 0 | 0 | 4.9 | 4.9 |
| C | 0.4 | 0.4 | 0 | 0 | 0.4 | 0.4 |
| Q113 C | 4.1 | 4.3 | 4.2 | 4.2 | 3.8 | 4.0 |
| Q401 B | 1.1 | 0.8 | 1.5 | 1.6 | 1.2 | 1.0 |
| C | 7.5 | 5.5 | 6.0 | 5.2 | 8.4 | 10.0 |
| E | 1.4 | 1.6 | 3.2 | 3.4 | 3.1 | 1.0 |
| Q402 B | 0.5 | 0.5 | 0.5 | 0.5 | 2.4 | 0.5 |
| C | 9.5 | 7.7 | 8.1 | 7.4 | 10.4 | 6.9 |
| E | 1.4 | 1.6 | 3.2 | 3.3 | 3.2 | 1.0 |
| Q404 B | 5.3 | 4.1 | 4.9 | 5.2 | 5.3 | 5.2 |
| E | 6.1 | 6.3 | 6.0 | 6.1 | 6.1 | 6.2 |
| Q405 B | 1.3 | 1.3 | 1.2 | 1.1 | 1.2 | 1.4 |
| Q406 B | 0.7 | 0.7 | 0 | 0.7 | 0.7 | 0.7 |
| C | 1.6 | 1.5 | 1.0 | 1.5 | 1.4 | 1.6 |
| Q407 B | 0 | 0 | 0 | 0 | 0 | 0.6 |
| C | 6.6 | 6.6 | 6.6 | 6.6 | 5.4 | 0 |
| Q408 B | 5.3 | 4.7 | 4.9 | 5.0 | 5.2 | 5.2 |
| E | 6.0 | 6.2 | 5.9 | 6.1 | 6.0 | 6.1 |
| Q409 B | 1.9 | 1.6 | 1.6 | 1.6 | 1.7 | 1.6 |
| E | 2.0 | 2.2 | 2.2 | 2.2 | 2.3 | 2.2 |
| Q411 C | 1.4 | 1.4 | 0.9 | 1.3 | 1.3 | 1.4 |
| Q412 B | 1.3 | 1.3 | 1.0 | 1.3 | 1.1 | 1.4 |
| E | 2.0 | 1.9 | 1.7 | 1.9 | 1.8 | 2.0 |
| Q413 G | 2.0 | -15.1 | 1.6 | -2.2 | 1.8 | -2.1 |
| D | 2.0 | 1.9 | -4.3 | 0 | 2.2 | 2.0 |
| S | 2.0 | 1.9 | 1.7 | 1.9 | 1.8 | 2.0 |
| Q417 B | 1.4 | 1.4 | 1.2 | 1.2 | 1.2 | 1.4 |
| Q418 C | 2.1 | 2.1 | 1.7 | 1.7 | 1.7 | 2.0 |
| Q419 B | 1.4 | 1.4 | 1.2 | 1.1 | 1.2 | 1.5 |
| E | 2.0 | 1.9 | 1.7 | 1.7 | 1.8 | 2.0 |
| Q420 B | 1.2 | 1.2 | 1.0 | 1.0 | 1.2 | 1.3 |
| E | 1.8 | 1.8 | 1.6 | 1.6 | 1.8 | 1.9 |
| Q422 C | 2.1 | 2.1 | 1.7 | 1.7 | 1.8 | 2.0 |
| Q423 B | 0.5 | 0.3 | 0.4 | 0.4 | 0.4 | 0.2 |
| Q425 C | 4.5 | 4.5 | 4.5 | 4.5 | 4.7 | 4.5 |
| Q426 C | 0.8 | 0.8 | 0.7 | 0.7 | 0.7 | 0 |
| Q429 B | 0.1 | 0.8 | 0.4 | 0.4 | 0.1 | 0.1 |
| E | 0 | -2.3 | -1.2 | -1.2 | 0.4 | 0.4 |
| Q432 B | -0.3 | -3.8 | -3.4 | -2.7 | -0.1 | -3.9 |
| C | 11.9 | 11.6 | 11.8 | 11.8 | 12.0 | 11.6 |
| Q433 B | 0 | -0.1 | 0 | 0 | 0 | 2.7 |
| C | 3.0 | 3.0 | 3.0 | 3.0 | 4.5 | 0 |
| Q434 B | -0.1 | 0 | 0 | 0 | -0.1 | 0.4 |
| C | 3.6 | 4.7 | 4.5 | 4.8 | 2.9 | 0 |
| Q438 B | -0.4 | -2.9 | -3.1 | -2.4 | 0 | -2.4 |
| C | 11.7 | 11.4 | 11.7 | 11.7 | 11.6 | 11.7 |
| Q439 B | 2.0 | 1.9 | 1.8 | 1.7 | 1.8 | 2.0 |
| E | 2.6 | 2.5 | 2.4 | 2.4 | 0 | 2.6 |
| Q440 B | 2.6 | 2.5 | 2.5 | 2.5 | 2.4 | 2.7 |
| Q441 G | -1.1 | -13.0 | 1.7 | -4.8 | 0 | -0.7 |
| D | 2.0 | 1.9 | -8.1 | 1.9 | 1.8 | 2.0 |
| S | 2.0 | 1.9 | 1.6 | 1.9 | 1.8 | 2.0 |
| Q442 B | 1.3 | 1.3 | 1.1 | 1.1 | 1.1 | 2.1 |
| E | 0.9 | 0.9 | 0.7 | 0.7 | 0.7 | 1.5 |
| Q444 C | 1.2 | 1.1 | 1.2 | 1.4 | 2.2 | 1.3 |
| Q445 C | 0.4 | 1.2 | 1.4 | 1.3 | 0.3 | 0.4 |

A BOARD (2/3) * MARK

| | PAL | SECAM | NTSC 3.58 | NTSC 4.43 | S-VIDEO | ANALOG RGB |
|---------|------|-------|-----------|-----------|---------|------------|
| IC301 ① | 2.8 | 0 | 2.8 | 3.0 | 3.0 | 2.3 |
| ② | 2.0 | 0 | 1.8 | 1.7 | 1.7 | 3.5 |
| IC302 ① | 2.9 | 2.9 | 2.9 | 0.3 | 2.9 | 2.9 |
| ② | 5.3 | 5.1 | 4.5 | 4.5 | 4.5 | 4.5 |
| ③ | 10.5 | 8.4 | 0 | 0 | 0 | 0 |
| IC303 ① | 2.3 | 2.6 | 2.2 | 2.2 | 2.6 | 2.8 |
| ② | 0.1 | 4.2 | 0.6 | 0.6 | 0.6 | 0.1 |
| ③ | 3.9 | 2.8 | 3.1 | 3.1 | 3.3 | 3.9 |
| IC304 ① | 2.2 | 2.6 | 2.2 | 2.2 | 2.2 | 2.2 |
| ② | 9.4 | 0.1 | 9.4 | 9.4 | 9.4 | 9.4 |
| ③ | 7.3 | 7.3 | 2.5 | 2.5 | 2.6 | 2.5 |
| ④ | 7.3 | 7.3 | 2.5 | 2.5 | 2.6 | 2.5 |
| ⑤ | 1.9 | 1.9 | 2.2 | 2.2 | 2.2 | 2.2 |
| ⑥ | 2.5 | 2.5 | 2.2 | 2.2 | 2.3 | 2.2 |
| IC305 ① | 2.8 | 2.8 | 2.8 | 0 | 2.8 | 2.8 |
| ② | 2.5 | 1.1 | 2.5 | 2.4 | 2.4 | 1.3 |
| ③ | 4.1 | 4.1 | 4.1 | 4.1 | 4.2 | 4.5 |
| ④ | 0.4 | 0.2 | 0 | 0 | 0 | 0.1 |
| ⑤ | 2.6 | 2.6 | 2.5 | 2.4 | 2.5 | 2.7 |
| ⑥ | 0 | 0 | 0.8 | 0.8 | 0.9 | 0.9 |
| ⑦ | 2.1 | 2.7 | 1.9 | 1.9 | 1.9 | 2.7 |
| IC306 ① | 8.1 | 8.1 | 8.1 | 8.1 | 8.1 | 0 |
| ② | 0 | 0 | 0 | 0.1 | 0.1 | 4.4 |
| IC309 ① | 3.6 | 0 | 3.6 | 3.6 | 3.6 | 3.6 |
| ② | 0 | 0 | 0 | 0 | 0 | 4.4 |
| IC310 ① | 6.2 | 6.2 | 6.2 | 6.2 | 6.2 | 5.9 |
| ② | 6.3 | 6.3 | 6.2 | 6.2 | 6.2 | 5.9 |
| ③ | 5.9 | 5.9 | 6.0 | 6.3 | 5.9 | 5.9 |
| IC311 ① | 0 | 6.2 | 6.2 | 6.2 | 6.2 | 6.2 |
| ② | 6.2 | 6.2 | 6.2 | 6.2 | 6.2 | 5.9 |
| ③ | 6.2 | 6.3 | 6.3 | 6.2 | 6.2 | 5.9 |
| ④ | 3.3 | 3.3 | 2.9 | 2.9 | 2.9 | 0 |
| ⑤ | 5.9 | 5.9 | 5.9 | 6.2 | 5.8 | 5.9 |
| ⑥ | 0.4 | 0.4 | 0.4 | 0.4 | 0.5 | 0.7 |
| IC312 ① | 3.6 | 0 | 3.6 | 3.6 | 3.6 | 3.6 |
| ② | 0 | 0 | 0 | 12.0 | 0.1 | 4.5 |
| IC313 ① | 0 | 6.3 | 0 | 6.3 | 6.3 | 6.3 |
| IC314 ① | 0 | 3.0 | 7.6 | 0 | 3.0 | 0 |
| ② | 0 | 0 | 0 | 0 | 2.9 | 0.1 |
| IC315 ① | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.6 |
| ② | 0.6 | 0 | 0.6 | 0.6 | 0.6 | 0.6 |
| ③ | 9.4 | 9.3 | 9.3 | 9.2 | 9.3 | 9.4 |
| ④ | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 7.2 |
| ⑤ | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.6 |
| ⑥ | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.6 |
| IC317 ① | 2.0 | 0 | 2.0 | 2.1 | 2.0 | 12.0 |
| ② | 12.0 | 0 | 12.0 | 12.0 | 12.0 | 12.0 |
| ③ | 10.7 | 10.6 | 10.6 | 10.6 | 10.5 | 10.7 |
| ④ | 9.4 | 9.4 | 9.4 | 9.4 | 9.1 | 9.4 |
| IC318 ① | 11.5 | 11.5 | 0 | 11.4 | 11.4 | 11.4 |
| IC320 ① | 6.3 | 6.3 | 6.3 | 6.3 | 6.3 | 0 |
| ② | 3.0 | 0 | 0 | 3.1 | 0 | 0 |
| ③ | 0 | 0 | 0 | 0 | 3.3 | 0 |
| IC321 ① | 0 | 0.1 | 0.1 | 0 | 2.9 | 0 |
| ② | 0 | 0 | 0 | 0 | 0.1 | 2.7 |
| IC322 ① | 5.8 | 5.9 | 6.0 | 6.3 | 5.9 | 5.9 |
| IC323 ① | 6.2 | 6.3 | 6.2 | 6.2 | 6.2 | 5.9 |
| ② | 0 | 5.6 | 5.6 | 5.6 | 5.6 | 5.6 |
| IC324 ① | 6.2 | 6.2 | 6.2 | 6.2 | 6.2 | 5.9 |
| IC326 ① | 5.9 | 5.9 | 6.0 | 6.3 | 5.9 | 5.9 |
| ② | 5.9 | 5.9 | 5.9 | 6.2 | 5.8 | 5.9 |
| ③ | 5.9 | 5.9 | 5.9 | 6.2 | 5.8 | 5.9 |
| ④ | 1.7 | 1.9 | 1.6 | 1.6 | 2.1 | 2.1 |
| ⑤ | 2.4 | 1.0 | 2.3 | 2.3 | 2.3 | 4.6 |
| ⑥ | 0 | -0.1 | 10.8 | 0 | -0.1 | 0 |
| ⑦ | 6.3 | 6.3 | 6.3 | 6.3 | 6.2 | 5.9 |
| ⑧ | 6.3 | 6.3 | 6.3 | 6.3 | 6.2 | 5.9 |
| ⑨ | 6.3 | 6.3 | 6.2 | 6.2 | 6.2 | 5.9 |

| | PAL | SECAM | NTSC 3.58 | NTSC 4.43 | S-VIDEO | ANALOG RGB |
|---------|------|-------|-----------|-----------|---------|------------|
| IC326 ① | 6.2 | 6.2 | 6.2 | 6.2 | 6.2 | 5.9 |
| ② | 6.2 | 6.2 | 6.2 | 6.2 | 6.2 | 5.9 |
| IC350 ① | 6.6 | 6.5 | 6.4 | 6.3 | 6.1 | 6.9 |
| ② | 6.2 | 6.2 | 6.2 | 6.3 | 6.0 | 6.4 |
| ③ | 6.2 | 6.2 | 6.2 | 6.3 | 6.0 | 6.4 |
| Q300 B | 2.5 | 2.5 | 2.2 | 2.2 | 2.2 | 2.2 |
| C | 10.2 | 10.2 | 10.4 | 10.5 | 10.4 | 10.5 |
| E | 1.9 | 1.9 | 1.6 | 1.6 | 1.6 | 1.6 |
| Q301 E | 8.6 | 8.5 | 8.2 | 8.3 | 8.5 | 9.8 |
| Q303 E | 5.7 | 5.7 | 5.7 | 5.7 | 5.5 | 5.7 |
| Q304 B | 6.3 | 6.3 | 6.3 | 6.4 | 6.2 | 6.3 |
| E | 5.7 | 5.7 | 5.7 | 5.7 | 5.5 | 5.7 |
| Q305 B | 8.6 | 8.5 | 8.2 | 8.3 | 8.5 | 9.8 |
| E | 7.9 | 7.9 | 7.6 | 7.7 | 7.9 | 9.1 |
| Q307 E | 1.4 | 1.4 | 1.1 | 1.2 | 1.4 | 2.7 |
| Q309 B | 1.4 | 1.4 | 1.1 | 1.2 | 1.4 | 2.6 |
| C | 0.1 | 0.1 | 0.2 | 0.1 | 0.1 | 0 |
| E | 0.7 | 1.8 | 1.7 | 1.8 | 0 | 1.8 |
| Q312 C | 8.2 | 8.2 | 8.6 | 8.3 | 8.3 | 8.1 |
| Q313 B | 8.2 | 8.2 | 8.6 | 8.3 | 8.2 | 8.1 |
| E | 8.8 | 8.8 | 9.3 | 9.0 | 8.9 | 8.7 |
| Q314 B | 11.9 | 6.4 | 11.9 | 11.9 | 11.9 | 11.9 |
| C | 0 | 11.9 | 0 | 0 | 0 | 0 |
| Q315 B | 3.3 | 3.2 | 2.9 | 3.1 | 3.2 | 3.3 |
| E | 3.9 | 3.9 | 3.5 | 3.8 | 3.8 | 4.0 |
| Q318 B | 12.1 | 12.0 | 11.7 | 11.9 | 12.1 | 12.1 |
| C | 1.0 | 1.0 | 1.2 | 1.0 | 1.0 | 0.9 |
| Q322 B | 2.4 | 2.4 | 2.3 | 2.3 | 5.6 | 2.4 |
| E | 1.8 | 1.8 | 1.8 | 1.8 | 5.0 | 1.8 |
| Q323 B | 5.0 | 5.0 | 0 | 0 | 0 | 0 |
| C | 0 | 0 | 3.5 | 3.5 | 3.5 | 3.6 |
| Q324 B | 4.1 | 4.2 | 0 | 0 | 0 | 0 |
| C | 0 | 0 | 0.8 | 0.8 | 0.8 | 0.9 |
| Q328 B | 2.2 | 2.2 | 2.2 | 2.2 | 2.0 | 1.3 |
| C | 2.8 | 2.8 | 2.8 | 2.8 | 0 | 0 |
| Q329 D | 2.1 | 2.1 | 2.2 | 2.4 | 0 | 2.2 |
| G | 0 | 0 | 1.6 | 0 | 2.9 | 2.8 |
| Q332 B | 4.9 | 5.0 | 0 | 4.9 | 0 | 0 |
| C | 0 | 0 | 4.4 | 0 | 4.3 | 4.4 |
| Q333 B | 1.7 | 1.7 | 1.9 | 1.8 | 1.7 | 1.7 |
| E | 1.5 | 1.5 | 1.7 | 1.5 | 1.5 | 1.4 |
| Q336 G | 4.7 | 4.6 | 4.6 | 4.7 | 4.2 | 4.8 |
| D | 4.3 | 4.3 | 4.3 | 4.3 | 4.5 | 4.3 |
| Q339 B | 12.3 | 12.5 | 12.5 | 12.4 | 12.5 | 12.3 |
| Q347 B | 0.1 | 4.2 | 0.1 | 0.1 | 0.6 | 0.1 |
| C | 9.4 | 0.1 | 9.4 | 9.4 | 9.4 | 9.4 |
| Q349 B | 2.8 | 2.7 | 2.7 | 2.7 | 2.2 | 2.8 |
| E | 3.4 | 3.3 | 3.4 | 3.4 | 2.8 | 3.4 |
| Q354 B | 12.0 | 0.6 | 0 | 0 | 0 | 0 |
| E | 12.0 | 0.4 | 0 | 0 | 0 | -0.2 |
| Q358 E | 2.2 | 2.2 | 0 | 2.2 | 2.2 | 2.2 |
| Q360 I | 6.2 | 6.2 | 6.2 | 6.3 | 6.1 | 6.4 |
| 3 | 6.2 | 6.2 | 6.2 | 6.3 | 6.0 | 6.4 |
| 5 | 1.3 | 4.7 | 2.2 | 4.1 | 5.3 | 3.8 |
| Q361 B | 4.9 | 4.9 | 5.0 | 5.0 | 5.0 | 0.8 |
| C | 0.1 | 0 | 0 | 0 | 0.1 | 4.9 |
| Q362 C | 9.0 | 9.0 | 9.0 | 9.5 | 9.2 | 8.5 |
| Q364 C | 3.3 | 3.3 | 2.9 | 2.9 | 2.8 | 2.9 |
| Q365 B | 0.4 | 0 | 0.3 | 0.3 | 0.4 | 0.4 |
| Q369 B | 0.8 | 0.9 | 0.8 | 0.8 | 0.9 | 4.9 |
| Q372 B | 0 | 0 | 0 | 0 | 0 | 4.9 |
| C | 11.7 | 11.7 | 11.8 | 11.8 | 11.7 | 0 |
| Q374 B | 10.4 | 10.3 | 10.1 | 10.3 | 10.7 | 6.4 |
| C | 0 | 0 | 0 | 0 | 6.2 | 6.7 |
| E | 6.4 | 6.4 | 6.3 | 6.3 | 6.1 | 6.7 |
| Q375 B | 10.7 | 10.8 | 10.7 | 10.7 | 10.7 | 5.9 |
| C | 0 | 0 | 0 | 0 | 6.3 | 6.4 |
| E | 6.2 | 6.2 | 6.2 | 6.2 | 6.0 | 6.4 |

A BOARD WAVEFORMS

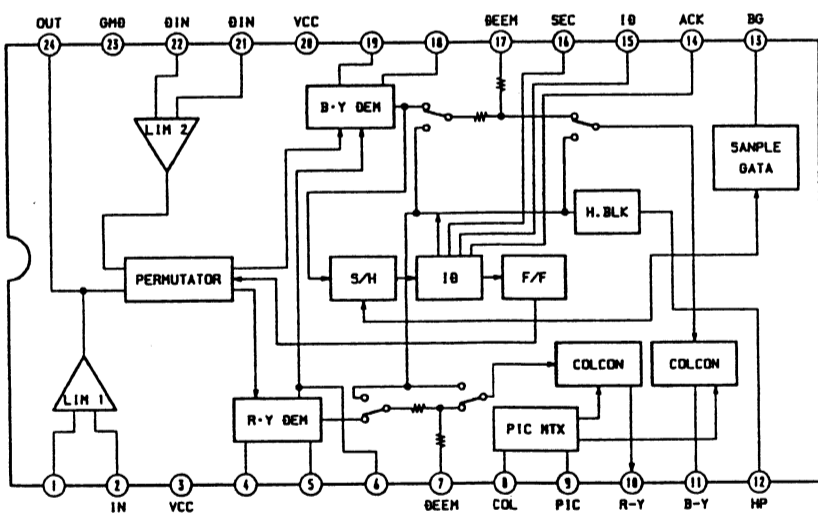


A BOARD (2/3) * MARK LIST

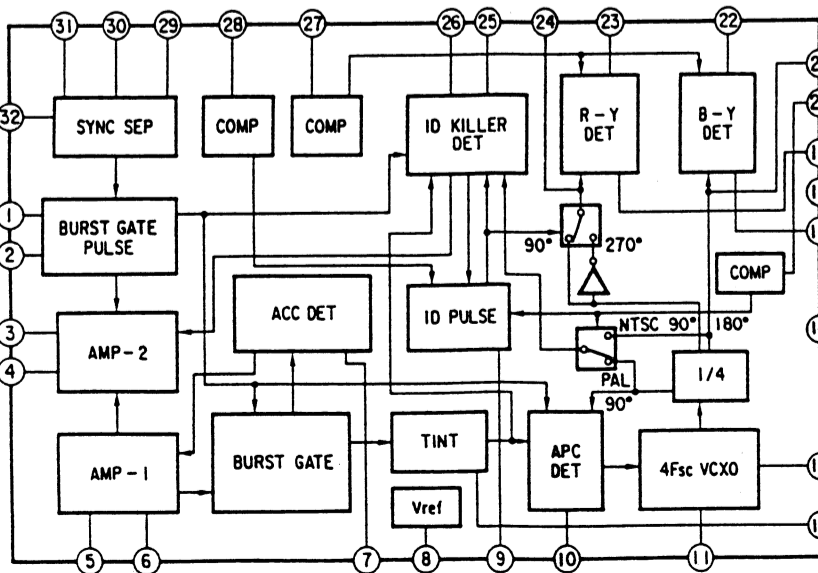
| | PVM-14M4U/E/A | PVM-14M2U/E/A |
|-------|-----------------|---------------|
| C525 | 0.011 2kV : PP | 0.01 2kV : PP |
| C527 | # | 470P 2kV |
| C553 | 0.082 200V : PT | # |
| C1520 | 150P 2kV B | # |
| C1524 | 100 | # |
| C1525 | 0.0047 2kV E | # |
| C1537 | 0.33 100V : MPS | # |
| CN508 | 2P WHT : MINI | # |
| D544 | MA111 | # |
| D545 | MA111 | # |
| D546 | V11N | # |
| D548 | RD16ESB2 | # |
| Q526 | 2SC4686A | # |
| Q527 | 2SC4686A | # |
| Q531 | 2SA1037K | # |
| Q532 | IRF520 | # |
| R559 | 330k : CHIP | 220k : CHIP |
| R562 | 47 1/4W : FPRD | # |
| R566 | 47k : RN-CP | 27k : RN-CP |
| R574 | 47k : CHIP | # |
| R577 | 10k : CHIP | # |
| R581 | 1k : CHIP | # |
| R1501 | 12k : CHIP | 10k : CHIP |
| R1539 | 100k : CHIP | # |
| R1542 | 22 : FPRD | # |
| R1580 | 47k : CHIP | # |
| R1581 | 10M 1W : RS | # |
| R1582 | 2M 1W : RS | # |
| R1583 | 470 1/2W : RF | # |
| R1599 | 10k 1/2W : RC | # |
| R2502 | 22k : CHIP | 18k : CHIP |
| R2504 | 150k : CHIP | 100k : CHIP |
| T501 | 1-453-233-11 | 1-453-232-11 |
| T502 | DFT | # |

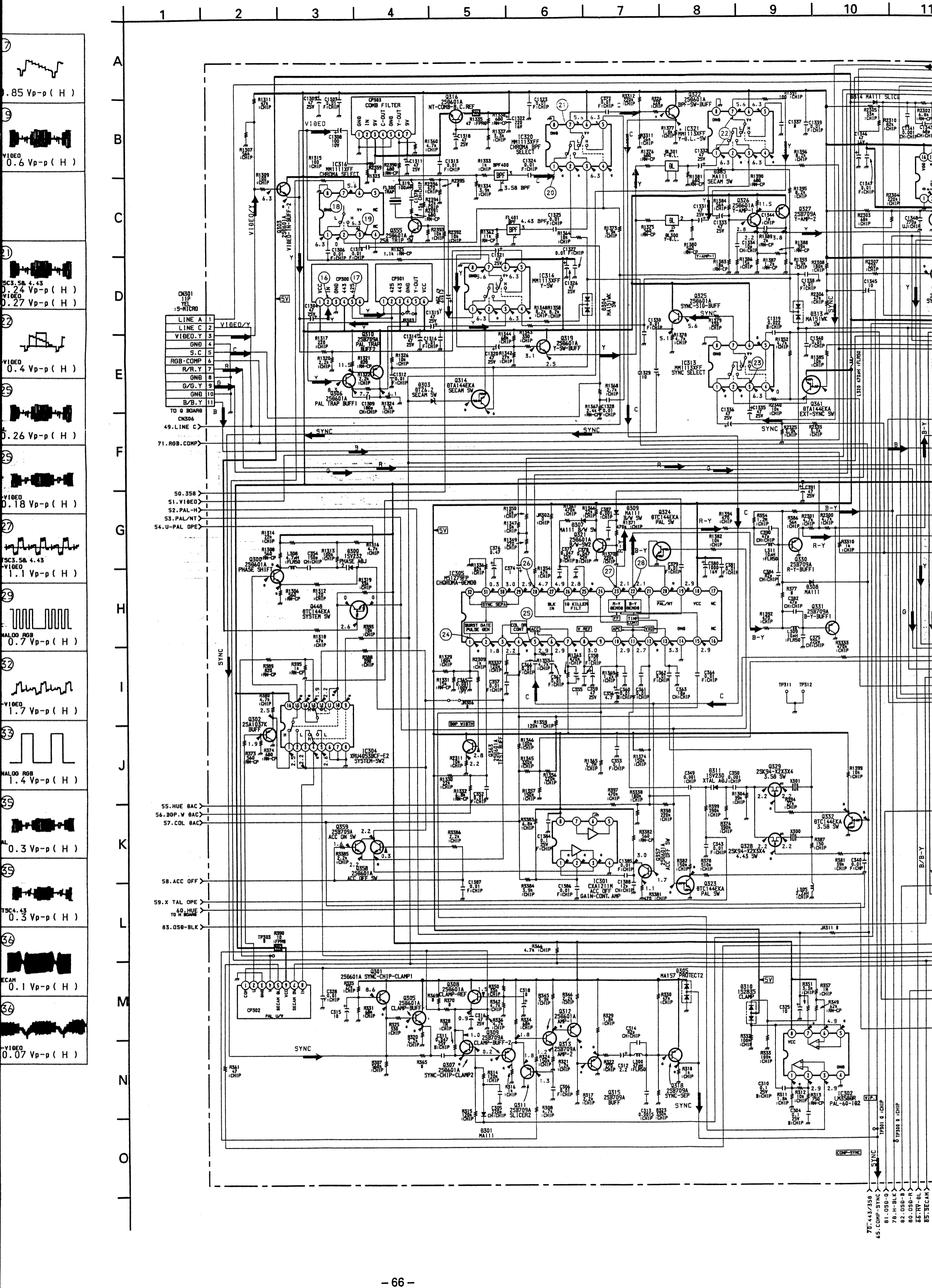
: Not Used

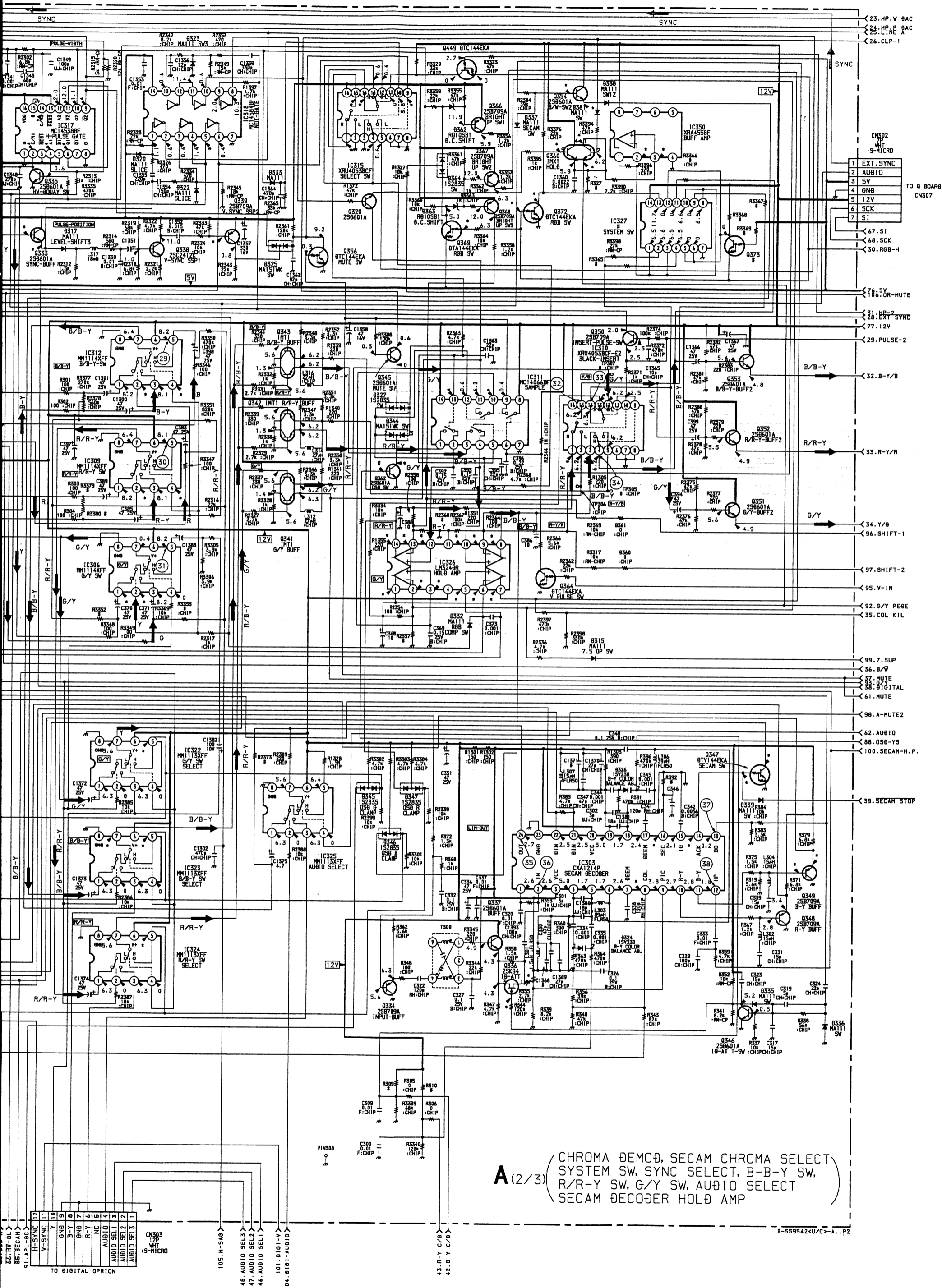
A BOARD IC303 CXA1214P

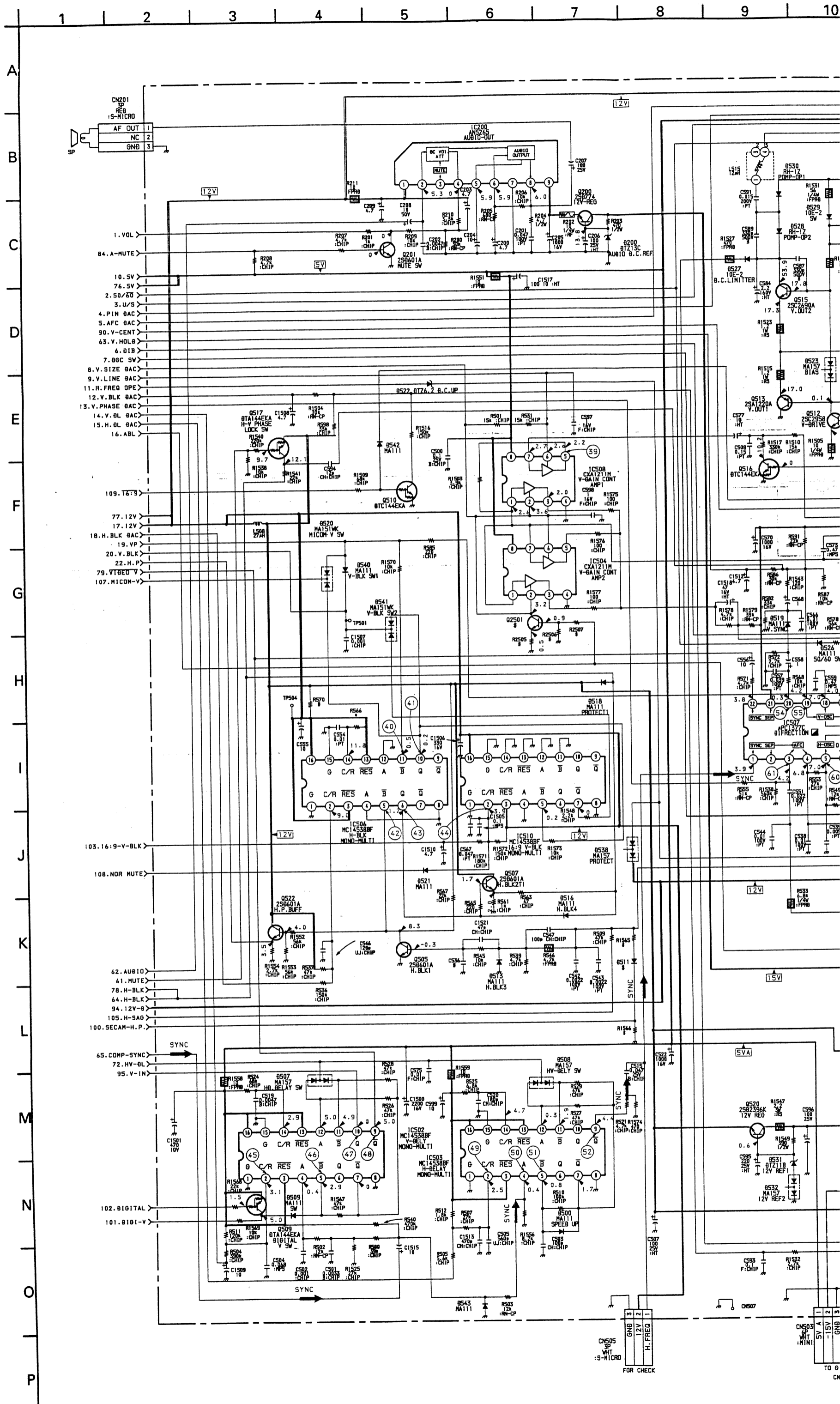


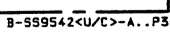
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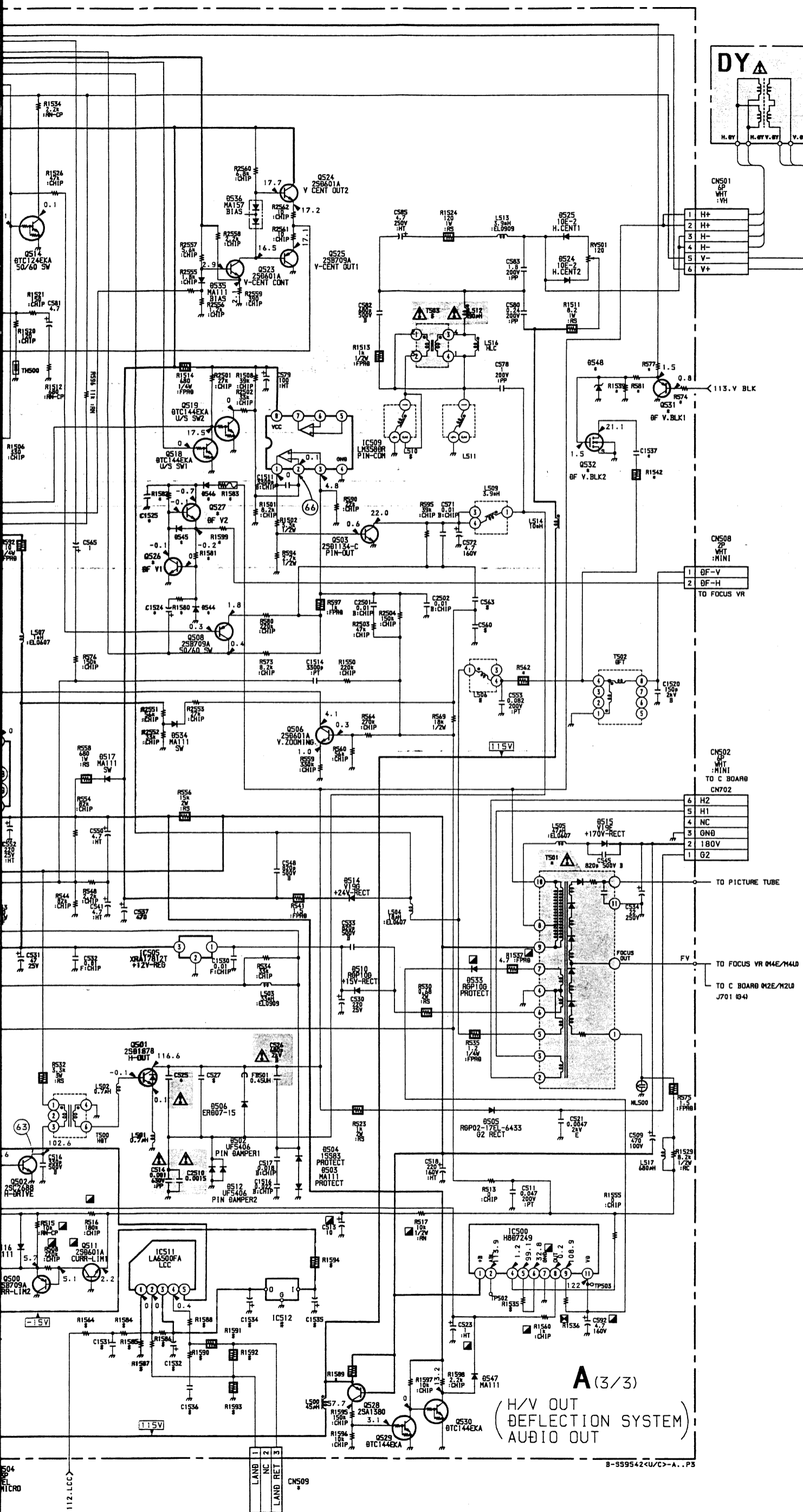
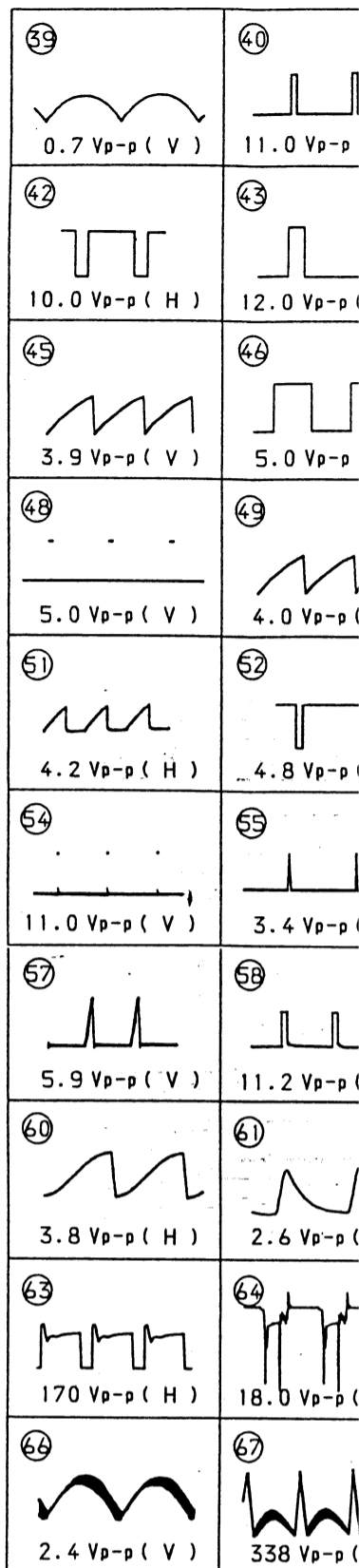


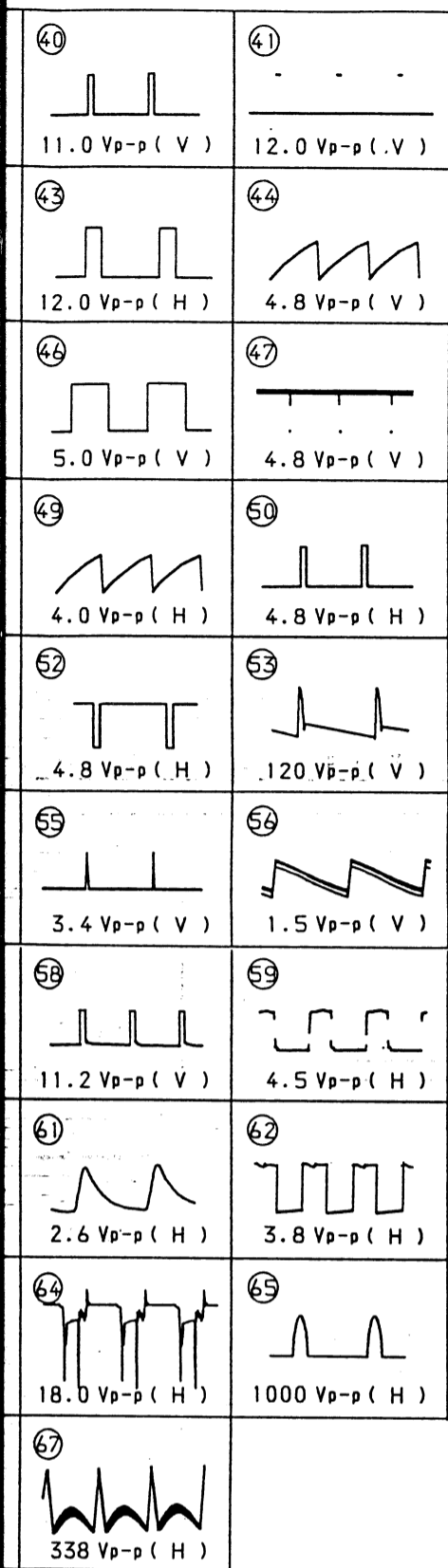




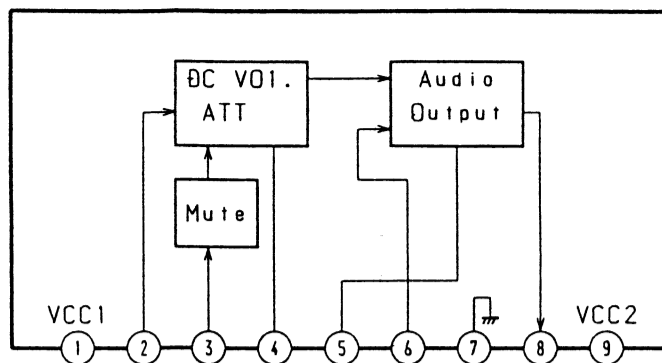


·A BOARD WAVEFORMS

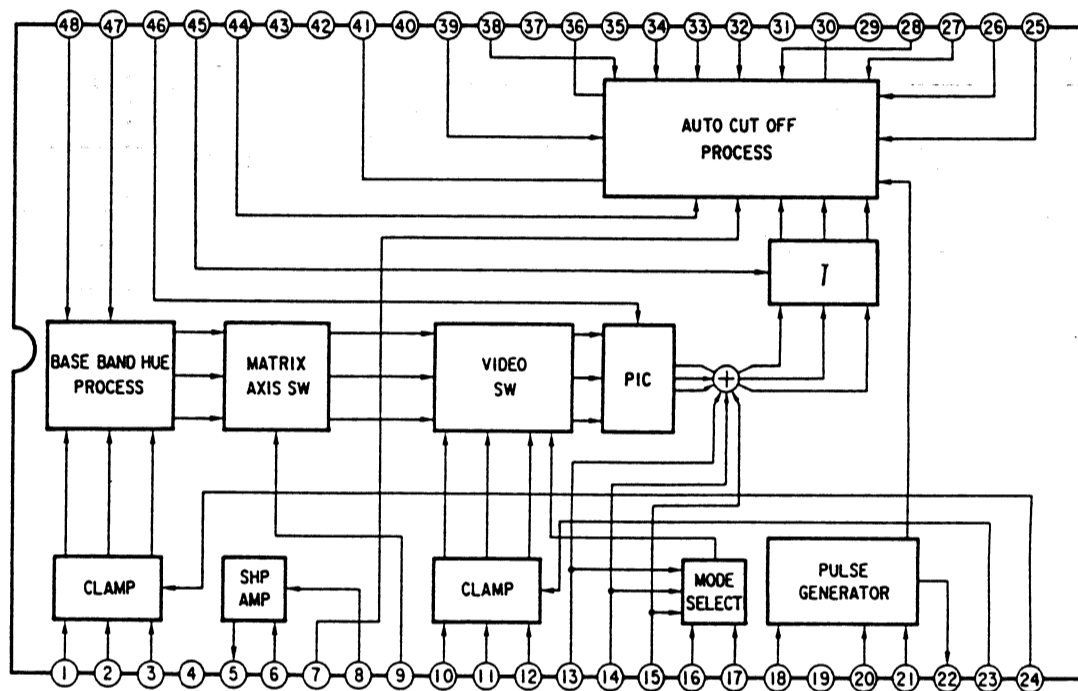




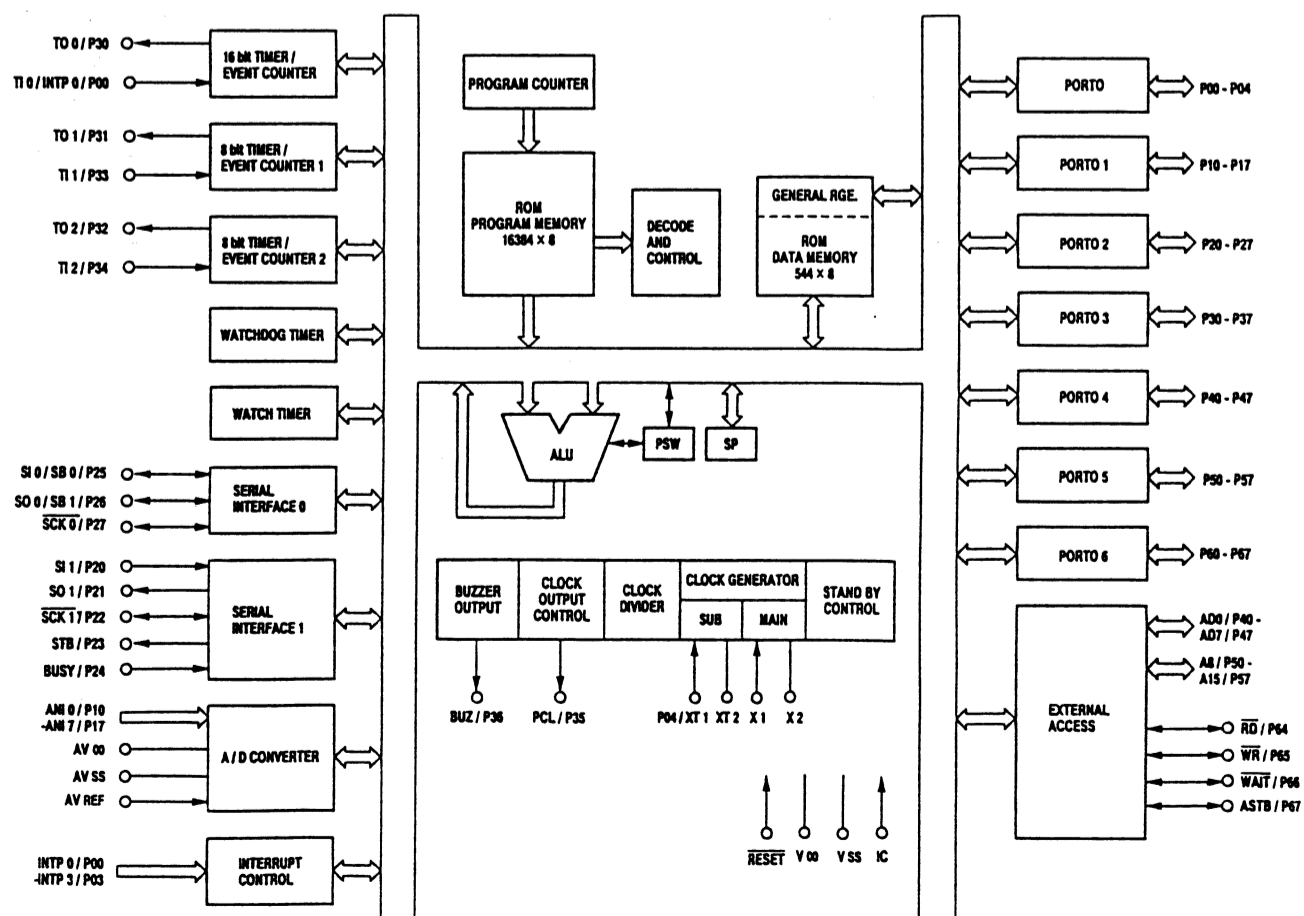
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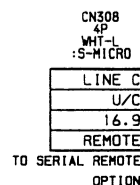


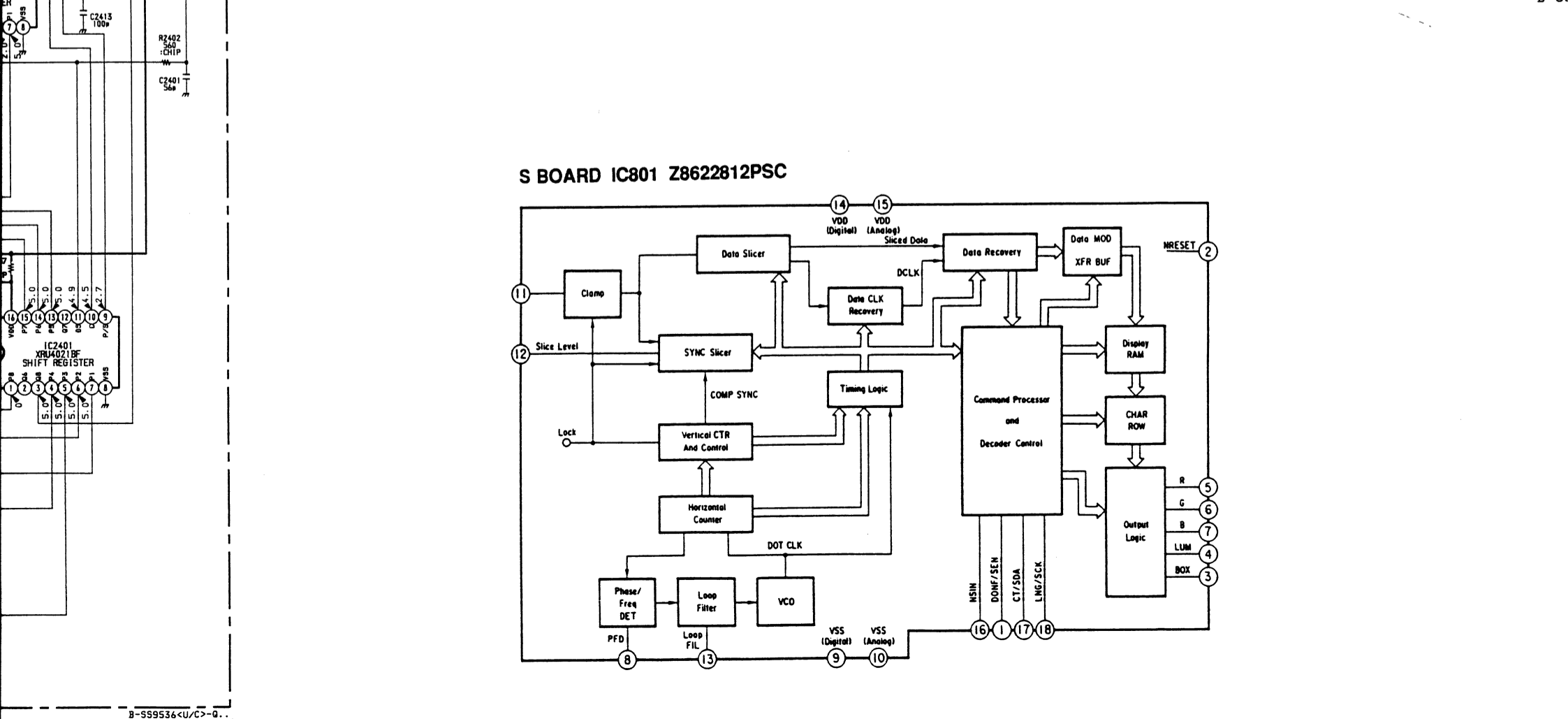
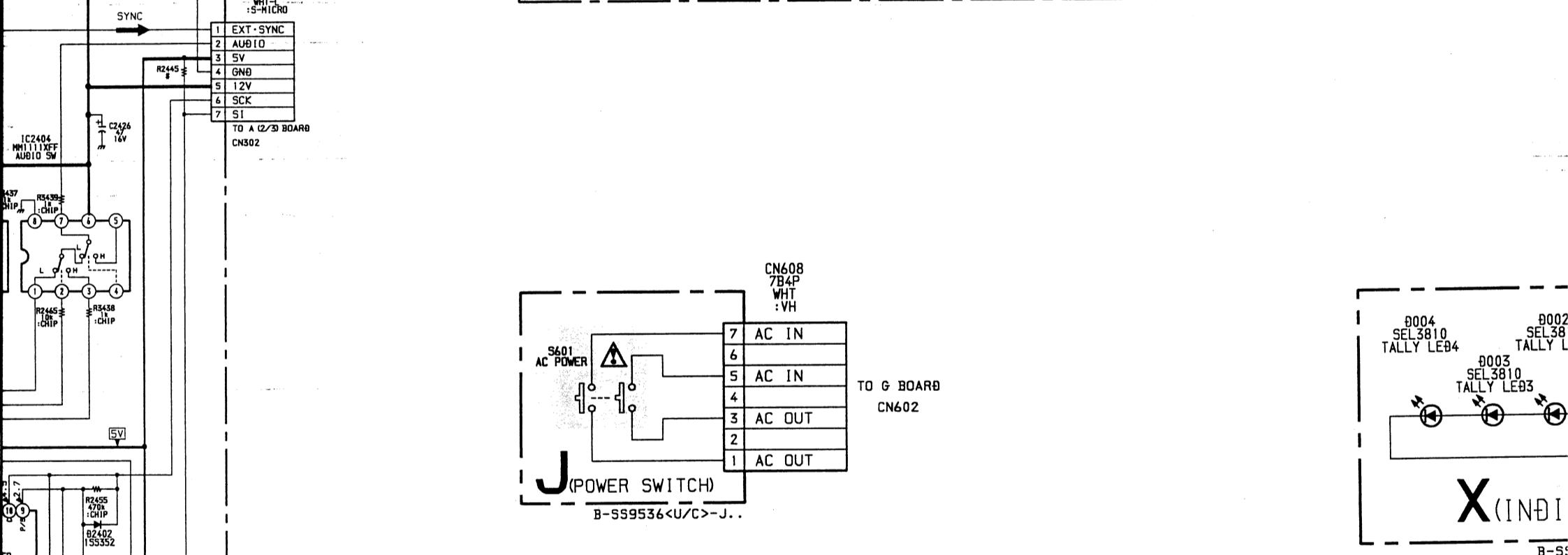
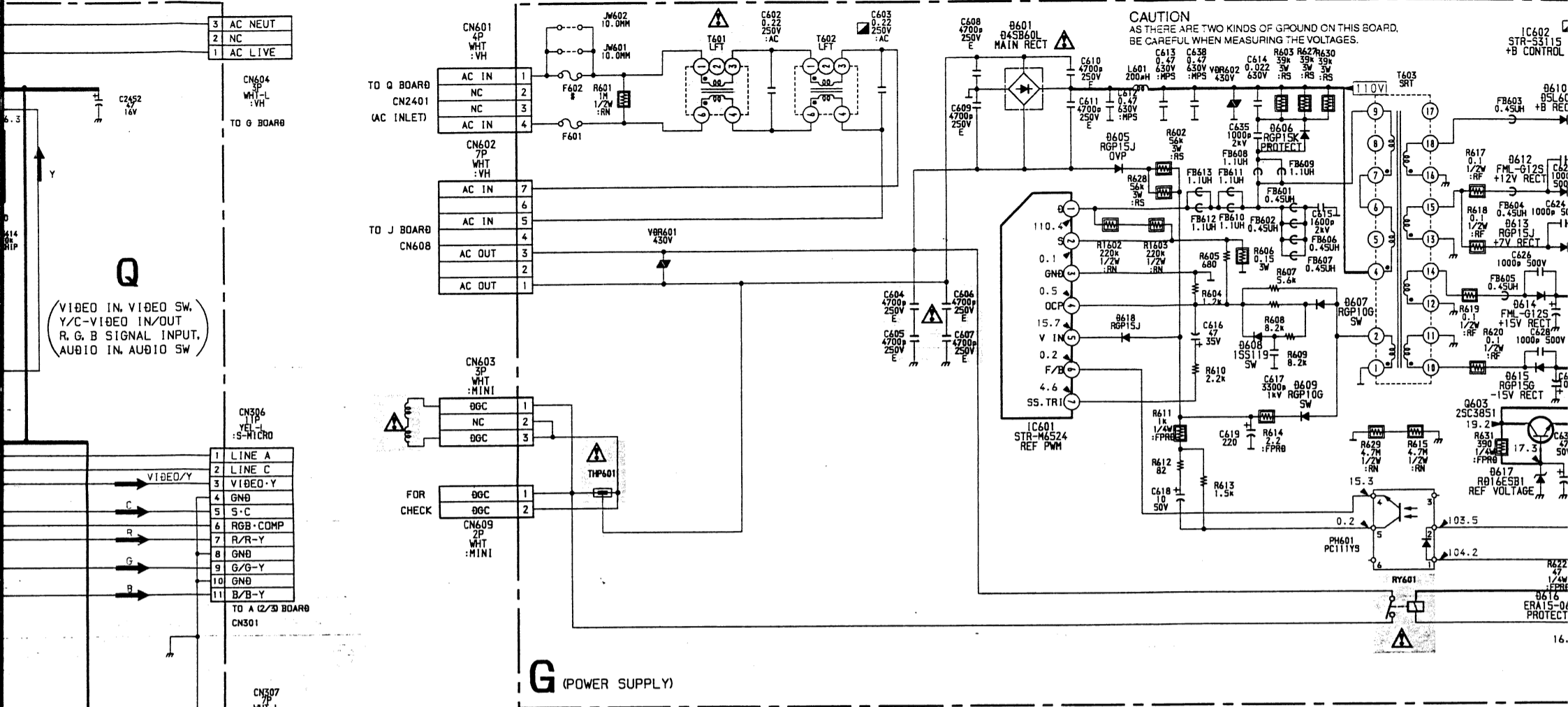
A BOARD IC101 μ PD78013YCW

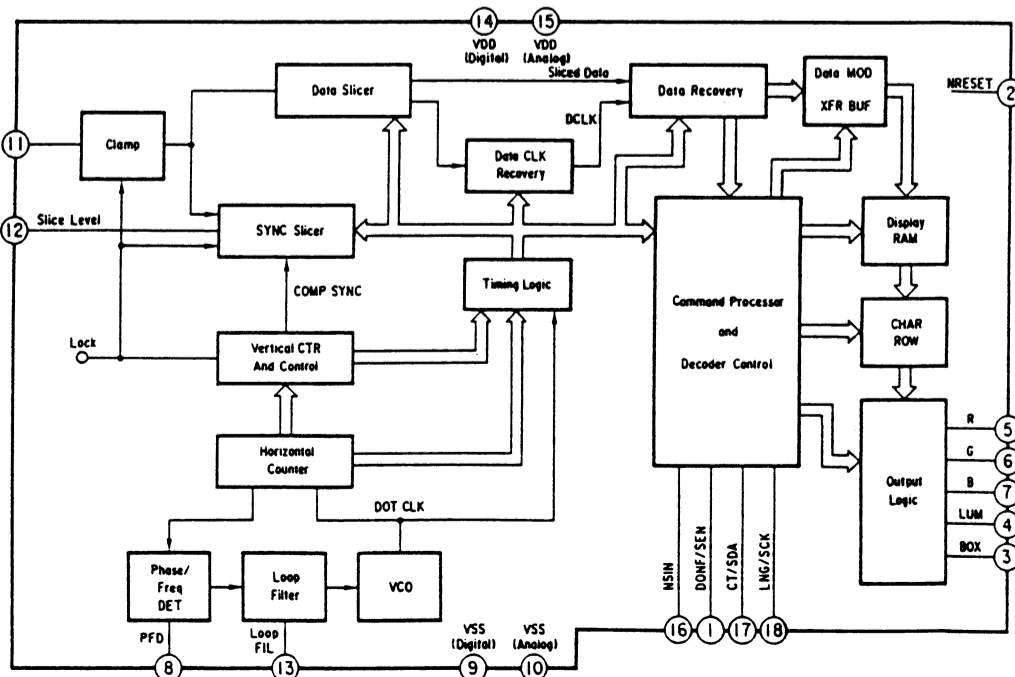
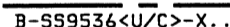
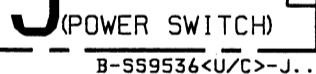


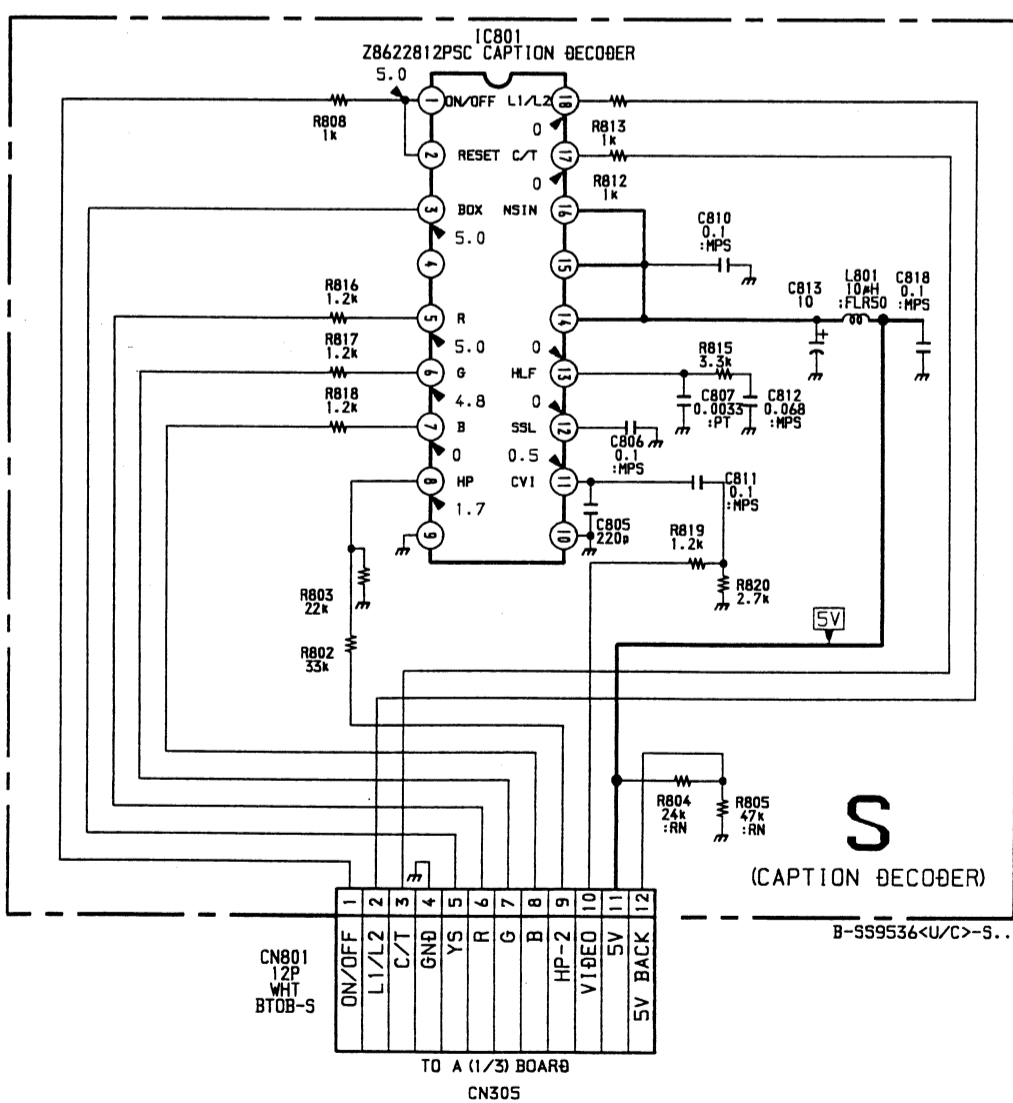
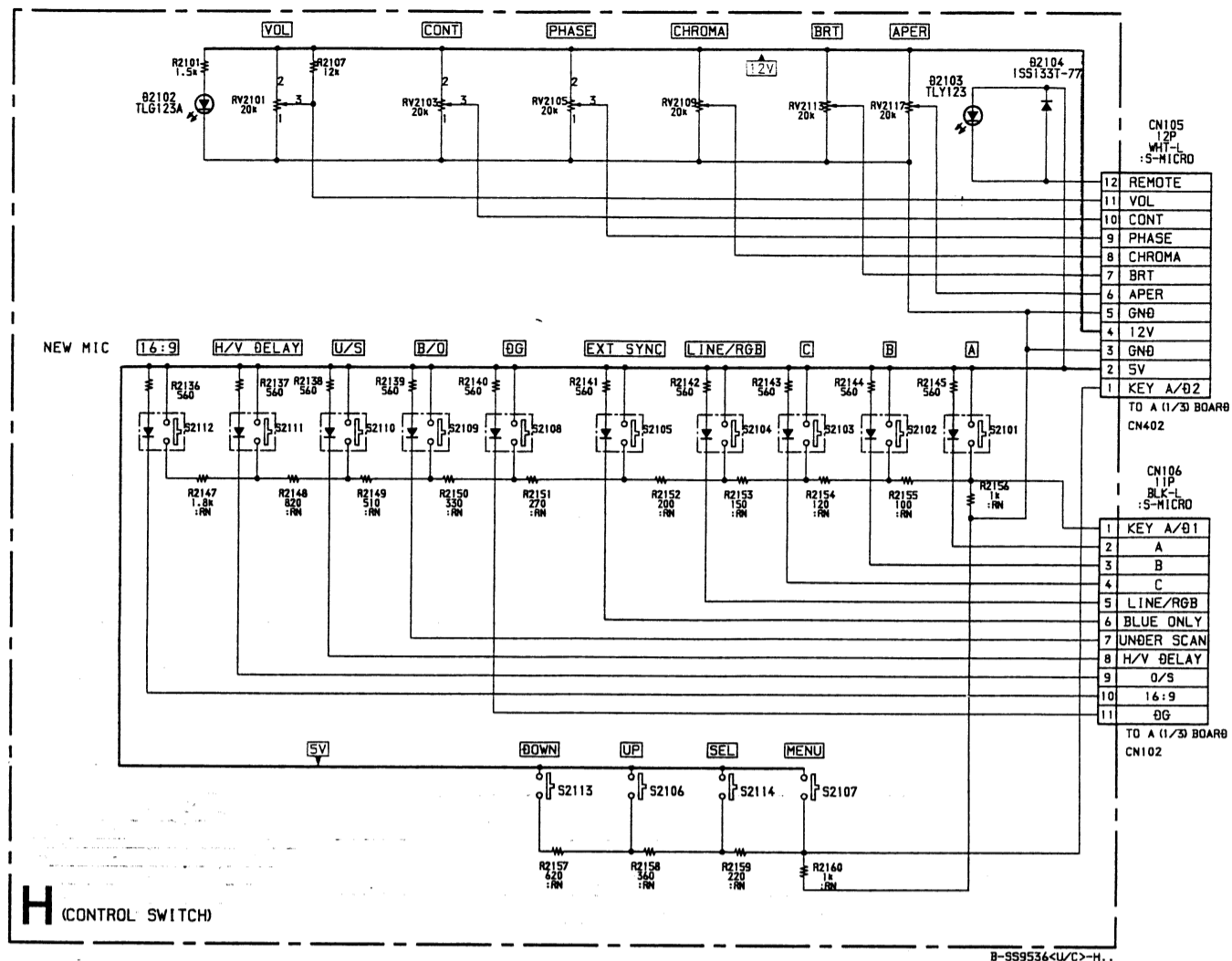
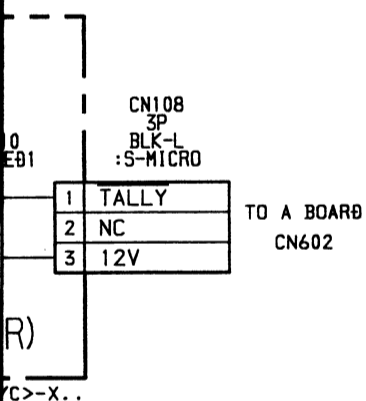
This set is equipped with a polarized ac power cord plug (one blade of the plug is wider than the other). When replacing the ac power cord, be sure to connect it with specified part number as shown in this diagram

| | | |
|--|---|--|
| <p>①</p>  <p>PAL NTSC3.58 NTSC4.43 1.0 Vp-p (H)</p> | <p>①</p>  <p>SECAM 1.0 Vp-p (H)</p> | <p>②</p>  <p>S-VHS 0.95 Vp-p (H)</p> |
| <p>③</p>  <p>S-VHS 0.65 Vp-p (H)</p> | <p>④</p>  <p>ANALOG RGB 0.7 Vp-p (H)</p> | <p>⑤</p>  <p>ANALOG RGB 0.7 Vp-p (H)</p> |
| <p>⑥</p>  <p>ANALOG RGB 0.7 Vp-p (H)</p> | <p>⑦</p>  <p>ANALOG RGB 2.0 Vp-p (H)</p> | |



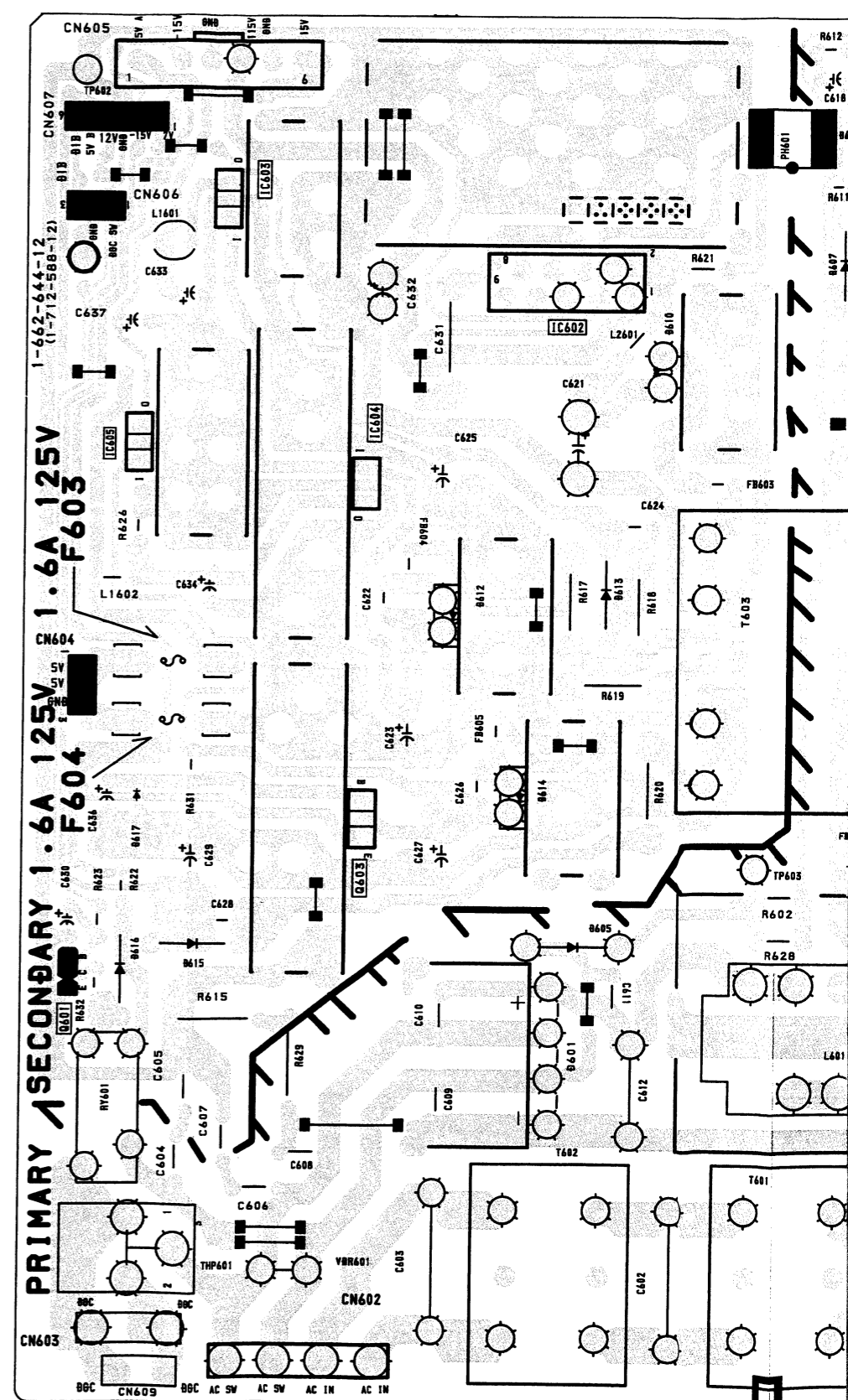
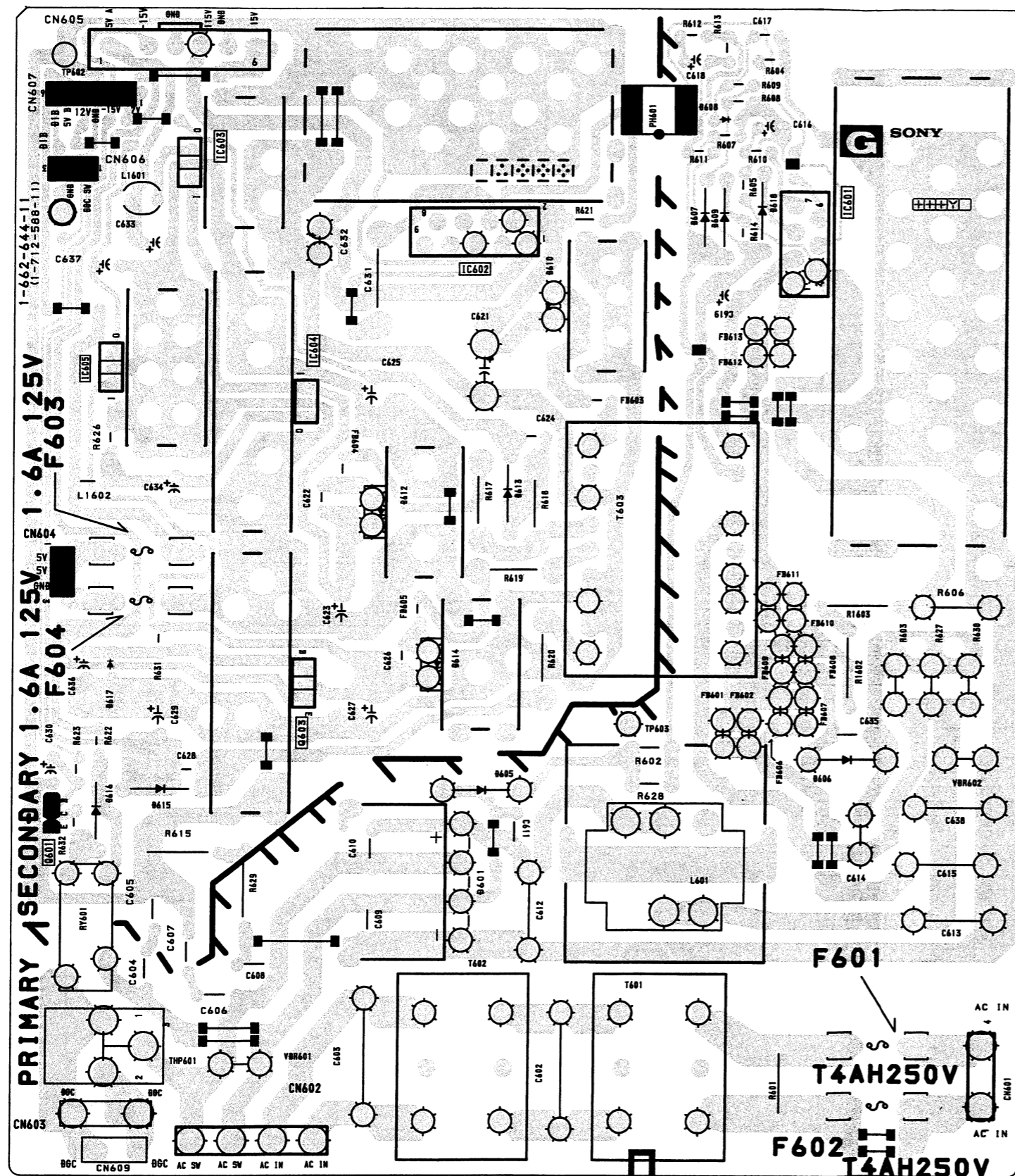








-G BOARD-



X [INDICATOR]

1-651-962-13 (170854713) J2401

SONY

1-537-735-14

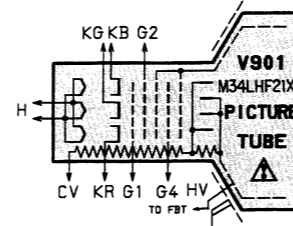
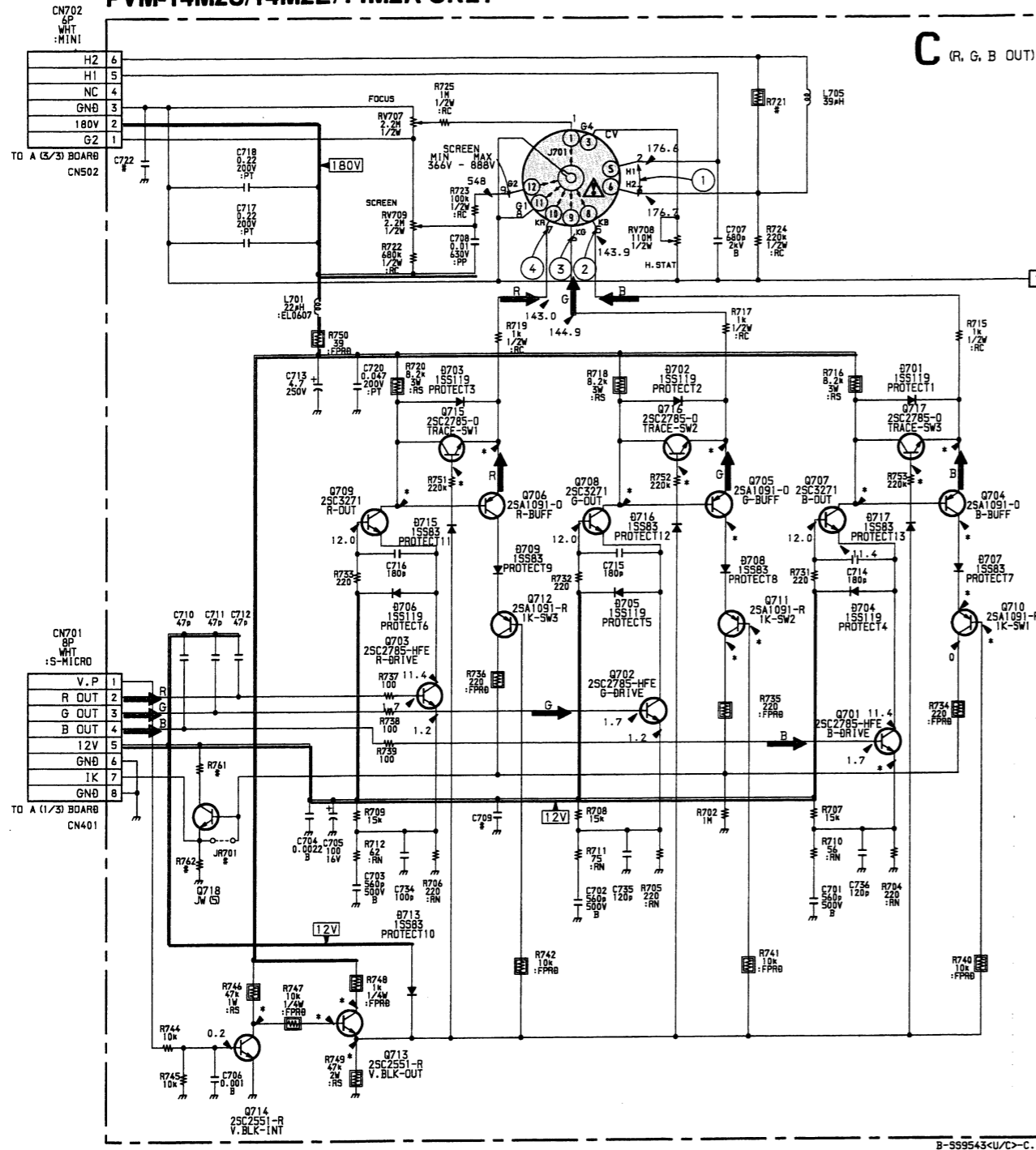
J2405 J2406 J2407 J2408 J2409 J2410 J2411 J2412 J2413 J2414 J2415 J2416 J2417 J2418 J2419 J2420 J2421 J2422 J2423 J2424 J2425 J2426 J2427 J2428 J2429 J2430 J2431 J2432 J2433 J2434 J2435 J2436 J2437 J2438 J2439 J2440 J2441 J2442 J2443 J2444 J2445 J2446 J2447 J2448 J2449 J2450 J2451 J2452 J2453 J2454 J2455 J2456 J2457 J2458 J2459 J2460 J2461 J2462 J2463 J2464 J2465 J2466 J2467 J2468 J2469 J2470 J2471 J2472 J2473 J2474 J2475 J2476 J2477 J2478 J2479 J2480 J2481 J2482 J2483 J2484 J2485 J2486 J2487 J2488 J2489 J2490 J2491 J2492 J2493 J2494 J2495 J2496 J2497 J2498 J2499 J2500 J2501 J2502 J2503 J2504 J2505 J2506 J2507 J2508 J2509 J2510 J2511 J2512 J2513 J2514 J2515 J2516 J2517 J2518 J2519 J2520 J2521 J2522 J2523 J2524 J2525 J2526 J2527 J2528 J2529 J2530 J2531 J2532 J2533 J2534 J2535 J2536 J2537 J2538 J2539 J2540 J2541 J2542 J2543 J2544 J2545 J2546 J2547 J2548 J2549 J2550 J2551 J2552 J2553 J2554 J2555 J2556 J2557 J2558 J2559 J2560 J2561 J2562 J2563 J2564 J2565 J2566 J2567 J2568 J2569 J2570 J2571 J2572 J2573 J2574 J2575 J2576 J2577 J2578 J2579 J2580 J2581 J2582 J2583 J2584 J2585 J2586 J2587 J2588 J2589 J2590 J2591 J2592 J2593 J2594 J2595 J2596 J2597 J2598 J2599 J2600 J2601 J2602 J2603 J2604 J2605 J2606 J2607 J2608 J2609 J2610 J2611 J2612 J2613 J2614 J2615 J2616 J2617 J2618 J2619 J2620 J2621 J2622 J2623 J2624 J2625 J2626 J2627 J2628 J2629 J2630 J2631 J2632 J2633 J2634 J2635 J2636 J2637 J2638 J2639 J2640 J2641 J2642 J2643 J2644 J2645 J2646 J2647 J2648 J2649 J2650 J2651 J2652 J2653 J2654 J2655 J2656 J2657 J2658 J2659 J2660 J2661 J2662 J2663 J2664 J2665 J2666 J2667 J2668 J2669 J2670 J2671 J2672 J2673 J2674 J2675 J2676 J2677 J2678 J2679 J2680 J2681 J2682 J2683 J2684 J2685 J2686 J2687 J2688 J2689 J2690 J2691 J2692 J2693 J2694 J2695 J2696 J2697 J2698 J2699 J2700 J2701 J2702 J2703 J2704 J2705 J2706 J2707 J2708 J2709 J2710 J2711 J2712 J2713 J2714 J2715 J2716 J2717 J2718 J2719 J2720 J2721 J2722 J2723 J2724 J2725 J2726 J2727 J2728 J2729 J2730 J2731 J2732 J2733 J2734 J2735 J2736 J2737 J2738 J2739 J2740 J2741 J2742 J2743 J2744 J2745 J2746 J2747 J2748 J2749 J2750 J2751 J2752 J2753 J2754 J2755 J2756 J2757 J2758 J2759 J2760 J2761 J2762 J2763 J2764 J2765 J2766 J2767 J2768 J2769 J2770 J2771 J2772 J2773 J2774 J2775 J2776 J2777 J2778 J2779 J2780 J2781 J2782 J2783 J2784 J2785 J2786 J2787 J2788 J2789 J2790 J2791 J2792 J2793 J2794 J2795 J2796 J2797 J2798 J2799 J2800 J2801 J2802 J2803 J2804 J2805 J2806 J2807 J2808 J2809 J2810 J2811 J2812 J2813 J2814 J2815 J2816 J2817 J2818 J2819 J2820 J2821 J2822 J2823 J2824 J2825 J2826 J2827 J2828 J2829 J2830 J2831 J2832 J2833 J2834 J2835 J2836 J2837 J2838 J2839 J2840 J2841 J2842 J2843 J2844 J2845 J2846 J2847 J2848 J2849 J2850 J2851 J2852 J2853 J2854 J2855 J2856 J2857 J2858 J2859 J2860 J2861 J2862 J2863 J2864 J2865 J2866 J2867 J2868 J2869 J2870 J2871 J2872 J2873 J2874 J2875 J2876 J2877 J2878 J2879 J2880 J2881 J2882 J2883 J2884 J2885 J2886 J2887 J2888 J2889 J2890 J2891 J2892 J2893 J2894 J2895 J2896 J2897 J2898 J2899 J2900 J2901 J2902 J2903 J2904 J2905 J2906 J2907 J2908 J2909 J2910 J2911 J2912 J2913 J2914 J2915 J2916 J2917 J2918 J2919 J2920 J2921 J2922 J2923 J2924 J2925 J2926 J2927 J2928 J2929 J2930 J2931 J2932 J2933 J2934 J2935 J2936 J2937 J2938 J2939 J2940 J2941 J2942 J2943 J2944 J2945 J2946 J2947 J2948 J2949 J2950 J2951 J2952 J2953 J2954 J2955 J2956 J2957 J2958 J2959 J2960 J2961 J2962 J2963 J2964 J2965 J2966 J2967 J2968 J2969 J2970 J2971 J2972 J2973 J2974 J2975 J2976 J2977 J2978 J2979 J2980 J2981 J2982 J2983 J2984 J2985 J2986 J2987 J2988 J2989 J2990 J2991 J2992 J2993 J2994 J2995 J2996 J2997 J2998 J2999 J3000 J3001 J3002 J3003 J3004 J3005 J3006 J3007 J3008 J3009 J3010 J3011 J3012 J3013 J3014 J3015 J3016 J3017 J3018 J3019 J3020 J3021 J3022 J3023 J3024 J3025 J3026 J3027 J3028 J3029 J3030 J3031 J3032 J3033 J3034 J3035 J3036 J3037 J3038 J3039 J3040 J3041 J3042 J3043 J3044 J3045 J3046 J3047 J3048 J3049 J3050 J3051 J3052 J3053 J3054 J3055 J3056 J3057 J3058 J3059 J3060 J3061 J3062 J3063 J3064 J3065 J3066 J3067 J3068 J3069 J3070 J3071 J3072 J3073 J3074 J3075 J3076 J3077 J3078 J3079 J3080 J3081 J3082 J3083 J3084 J3085 J3086 J3087 J3088 J3089 J3090 J3091 J3092 J3093 J3094 J3095 J3096 J3097 J3098 J3099 J3100 J3101 J3102 J3103 J3104 J3105 J3106 J3107 J3108 J3109 J3110 J3111 J3112 J3113 J3114 J3115 J3116 J3117 J3118 J3119 J3120 J3121 J3122 J3123 J3124 J3125 J3126 J3127 J3128 J3129 J3130 J3131 J3132 J3133 J3134 J3135 J3136 J3137 J3138 J3139 J3140 J3141 J3142 J3143 J3144 J3145 J3146 J3147 J3148 J3149 J3150 J3151 J3152 J3153 J3154 J3155 J3156 J3157 J3158 J3159 J3160 J3161 J3162 J3163 J3164 J3165 J3166 J3167 J3168 J3169 J3170 J3171 J3172 J3173 J3174 J3175 J3176 J3177 J3

[illegible]

NC SONY 8004 8005 8002 8001
CN108 TALLY 1-712-588-11 1-662-668-11

PVM-14M2U/14M2E/14M2A ONLY

PVM-14M4U/14M4E/14M4A

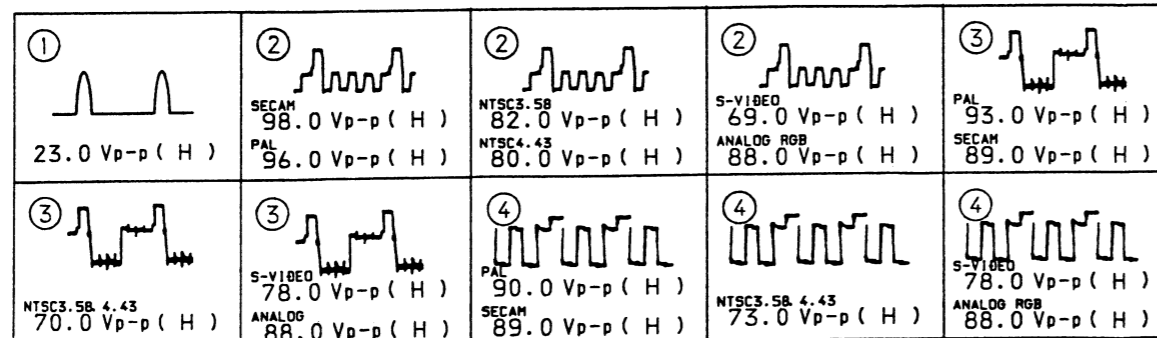


C BOARD * MARK LIST

| | PAL | SECAM | NTSC 3.58 | NTSC 4.43 | S-VIDEO | ANALOG RGB |
|--------|-------|-------|-----------|-----------|---------|------------|
| Q701 B | 2.0 | 1.9 | 1.73 | 1.8 | 1.8 | 2.0 |
| E | 1.4 | 1.3 | 1.1 | 1.1 | 1.2 | 1.4 |
| Q702 B | 2.0 | 1.9 | 1.7 | 1.7 | 1.8 | 2.0 |
| E | 1.5 | 1.3 | 1.1 | 1.1 | 1.2 | 1.4 |
| Q703 B | 1.9 | 1.8 | 1.6 | 1.6 | 1.8 | 1.9 |
| E | 1.3 | 1.2 | 1.0 | 1.0 | 1.2 | 1.3 |
| Q704 B | 143.6 | 148.0 | 153.9 | 153.4 | 144.9 | 143.8 |
| C | 129.0 | 134.3 | 135.4 | 134.5 | 31.2 | 111.5 |
| E | 139.7 | 144.4 | 150.3 | 149.6 | 140.4 | 140.1 |
| Q705 B | 141.7 | 145.8 | 154.9 | 154.2 | 145.0 | 141.8 |
| C | 124.9 | 130.2 | 132.3 | 130.4 | 60.4 | 106.6 |
| E | 138.3 | 142.3 | 151.3 | 150.6 | 140.7 | 138.5 |
| Q706 B | 149.7 | 151.5 | 160.4 | 159.8 | 144.9 | 148.6 |
| C | 134.5 | 138.3 | 141.2 | 141.1 | 103.2 | 114.7 |
| E | 146.2 | 148.0 | 157.1 | 156.4 | 140.8 | 145.0 |
| Q707 C | 143.8 | 148.0 | 154.0 | 153.4 | 144.9 | 143.7 |
| Q708 C | 141.9 | 145.9 | 155.2 | 154.3 | 145.0 | 141.8 |
| Q709 C | 149.8 | 151.5 | 160.6 | 159.9 | 144.9 | 148.5 |
| Q710 B | 172.8 | 173.1 | 174.3 | 173.9 | 167.0 | 173.5 |
| E | 160.9 | 164.0 | 162.9 | 162.2 | 154.0 | 161.2 |
| Q711 B | 172.8 | 173.2 | 174.3 | 173.9 | 167.0 | 173.5 |
| C | 160.6 | 161.0 | 162.3 | 161.8 | 154.1 | 161.3 |
| Q712 B | 172.9 | 173.2 | 174.0 | 174.2 | 167.0 | 173.5 |
| E | 161.6 | 163.6 | 164.1 | 164.8 | 154.5 | 161.4 |
| Q713 B | 172.8 | 173.2 | 173.9 | 173.9 | 166.8 | 173.5 |
| C | 184.2 | 184.5 | 184.7 | 184.6 | 176.6 | 183.8 |
| E | 173.3 | 173.6 | 174.3 | 174.3 | 167.2 | 173.9 |
| Q714 C | 173.6 | 173.7 | 174.5 | 174.4 | 167.4 | 174.1 |
| Q715 B | 146.7 | 148.6 | 157.6 | 157.0 | 140.3 | 145.7 |
| C | 149.5 | 151.5 | 160.6 | 159.9 | 144.9 | 148.5 |
| E | 146.1 | 148.0 | 157.2 | 156.5 | 140.7 | 145.0 |
| Q716 B | 139.2 | 143.3 | 152.5 | 151.5 | 140.7 | 139.4 |
| C | 141.7 | 145.8 | 155.2 | 154.2 | 145.1 | 141.8 |
| E | 138.2 | 142.3 | 151.4 | 150.5 | 140.6 | 138.4 |
| Q717 B | 140.9 | 145.4 | 151.7 | 150.8 | 140.6 | 141.2 |
| C | 143.6 | 148.0 | 154.1 | 153.4 | 144.9 | 143.8 |
| E | 139.8 | 144.4 | 150.5 | 149.6 | 140.4 | 140.0 |

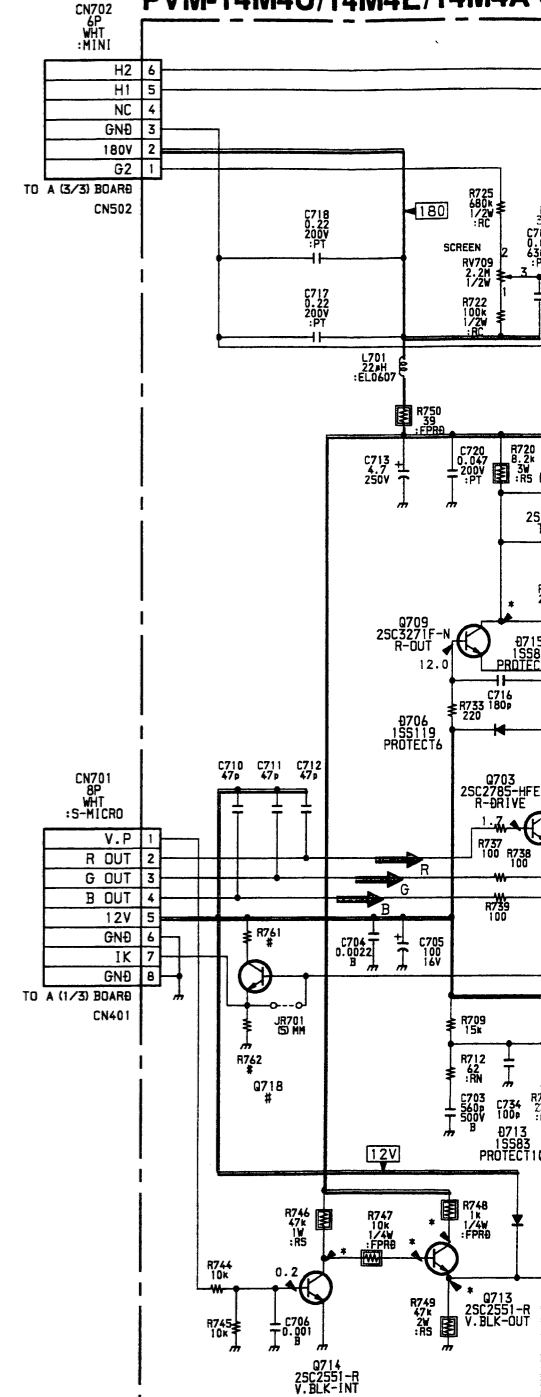
| | |
|------|------------|
| D701 | PROTECT 1 |
| D702 | PROTECT 2 |
| D703 | PROTECT 3 |
| D704 | PROTECT 4 |
| D705 | PROTECT 5 |
| D706 | PROTECT 6 |
| D707 | PROTECT 7 |
| D708 | PROTECT 8 |
| D709 | PROTECT 9 |
| D710 | PROTECT 10 |
| D711 | PROTECT 11 |
| D712 | PROTECT 12 |
| D713 | PROTECT 13 |
| Q701 | B DRIVE |
| Q702 | G DRIVE |
| Q703 | R DRIVE |
| Q704 | B BUFF |
| Q705 | G BUFF |
| Q706 | R BUFF |
| Q707 | B OUT |
| Q708 | G OUT |
| Q709 | R OUT |
| Q710 | IK SW 1 |
| Q711 | IK SW 2 |
| Q712 | IK SW 3 |
| Q713 | V. BLK OUT |
| Q714 | V. BLK INT |
| Q715 | TRACE SW 1 |
| Q716 | TRACE SW 2 |
| Q717 | TRACE SW 3 |

C BOARD WAVEFORMS

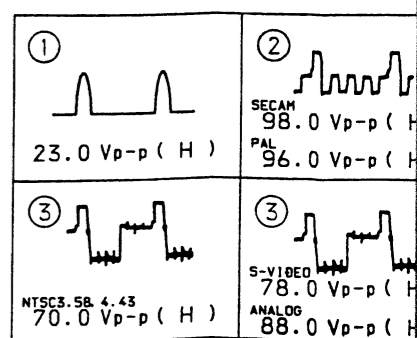


Schematic diagram

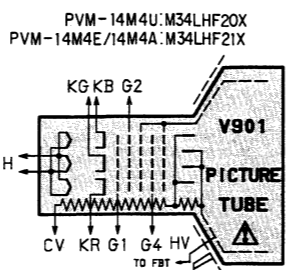
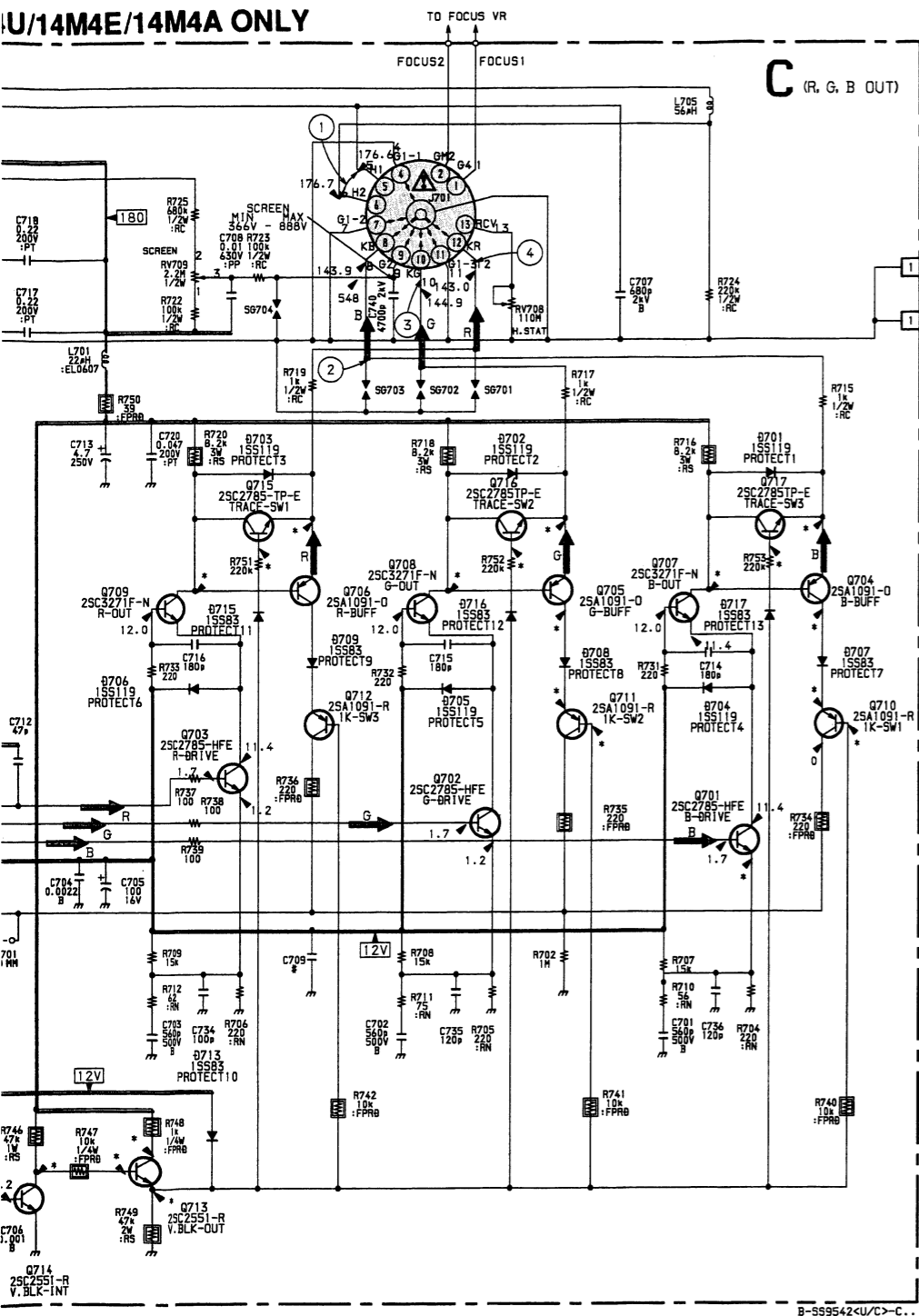
C board



C BOARD WAVEFORMS



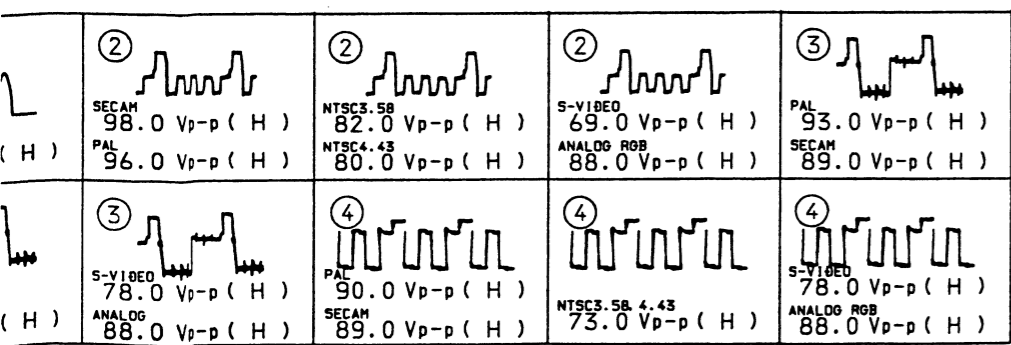
U/14M4E/14M4A ONLY



C BOARD * MARK LIST

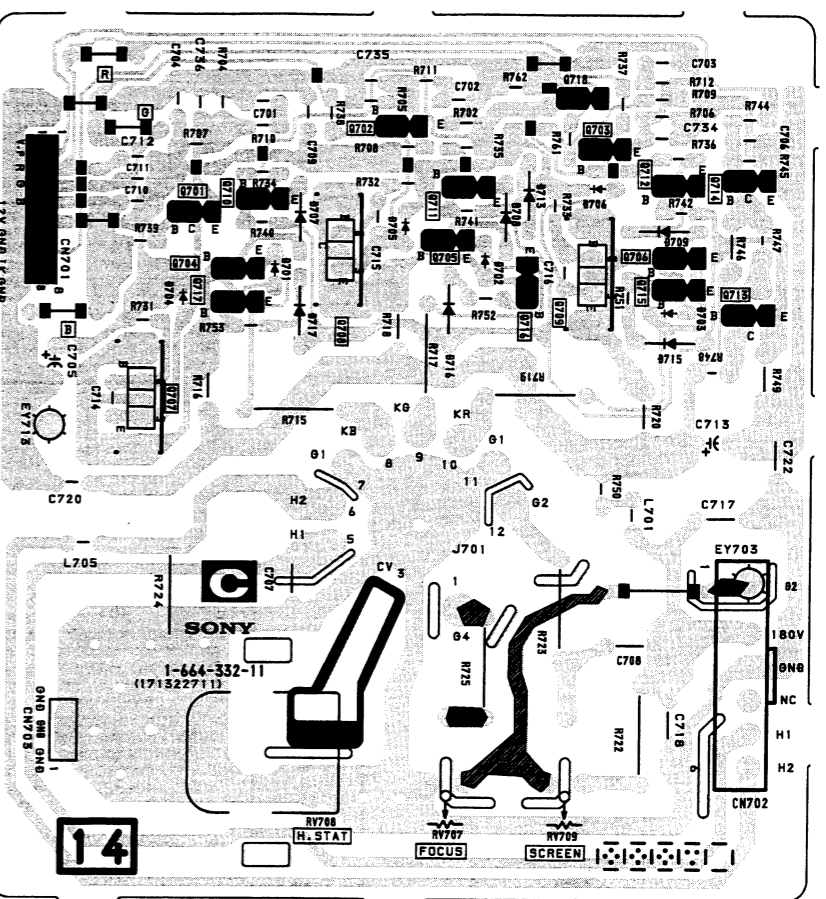
| | PAL | SECAM | NTSC 3.58 | NTSC 4.43 | S-VIDEO | ANALOG RGB |
|--------|-------|-------|-----------|-----------|---------|------------|
| Q701 B | 2.0 | 1.9 | 1.73 | 1.8 | 1.8 | 2.0 |
| E | 1.4 | 1.3 | 1.1 | 1.1 | 1.2 | 1.4 |
| Q702 B | 2.0 | 1.9 | 1.7 | 1.7 | 1.8 | 2.0 |
| E | 1.5 | 1.3 | 1.1 | 1.1 | 1.2 | 1.4 |
| Q703 B | 1.9 | 1.8 | 1.6 | 1.6 | 1.8 | 1.9 |
| E | 1.3 | 1.2 | 1.0 | 1.0 | 1.2 | 1.3 |
| Q704 B | 143.6 | 148.0 | 153.9 | 153.4 | 144.9 | 143.8 |
| C | 129.0 | 134.3 | 135.4 | 134.5 | 31.2 | 111.5 |
| E | 139.7 | 144.4 | 150.3 | 149.6 | 140.4 | 140.1 |
| Q705 B | 141.7 | 145.8 | 154.9 | 154.2 | 145.0 | 141.8 |
| C | 124.9 | 130.2 | 132.3 | 130.4 | 60.4 | 106.6 |
| E | 138.3 | 142.3 | 151.3 | 150.6 | 140.7 | 138.5 |
| Q706 B | 149.7 | 151.5 | 160.4 | 159.8 | 144.9 | 148.6 |
| C | 134.5 | 138.3 | 141.2 | 141.1 | 103.2 | 114.7 |
| E | 146.2 | 148.0 | 157.1 | 156.4 | 140.8 | 145.0 |
| Q707 C | 143.8 | 148.0 | 154.0 | 153.4 | 144.9 | 143.7 |
| Q708 C | 141.9 | 145.9 | 155.2 | 154.3 | 145.0 | 141.8 |
| Q709 C | 149.8 | 151.5 | 160.6 | 159.9 | 144.9 | 148.5 |
| Q710 B | 172.8 | 173.1 | 174.3 | 173.9 | 167.0 | 173.5 |
| E | 160.9 | 164.0 | 162.9 | 162.2 | 154.0 | 161.2 |
| Q711 B | 172.8 | 173.2 | 174.3 | 173.9 | 167.0 | 173.5 |
| C | 160.6 | 161.0 | 162.3 | 161.8 | 154.1 | 161.3 |
| Q712 B | 172.9 | 173.2 | 174.0 | 174.2 | 167.0 | 173.5 |
| E | 161.6 | 163.6 | 164.1 | 164.8 | 154.5 | 161.4 |
| Q713 B | 172.8 | 173.2 | 173.9 | 173.9 | 166.8 | 173.5 |
| C | 184.2 | 184.5 | 184.7 | 184.6 | 176.6 | 183.8 |
| E | 173.3 | 173.6 | 174.3 | 174.3 | 167.2 | 173.9 |
| Q714 C | 173.6 | 173.7 | 174.5 | 174.4 | 167.4 | 174.1 |
| Q715 B | 146.7 | 148.6 | 157.6 | 157.0 | 140.3 | 145.7 |
| C | 149.5 | 151.5 | 160.6 | 159.9 | 144.9 | 148.5 |
| E | 146.1 | 148.0 | 157.2 | 156.5 | 140.7 | 145.0 |
| Q716 B | 139.2 | 143.3 | 152.5 | 151.5 | 140.7 | 139.4 |
| C | 141.7 | 145.8 | 155.2 | 154.2 | 145.1 | 141.8 |
| E | 138.2 | 142.3 | 151.4 | 150.5 | 140.6 | 138.4 |
| Q717 B | 140.9 | 145.4 | 151.7 | 150.8 | 140.6 | 141.2 |
| C | 143.6 | 148.0 | 154.1 | 153.4 | 144.9 | 143.8 |
| E | 139.8 | 144.4 | 150.5 | 149.6 | 140.4 | 140.0 |

WAVEFORMS

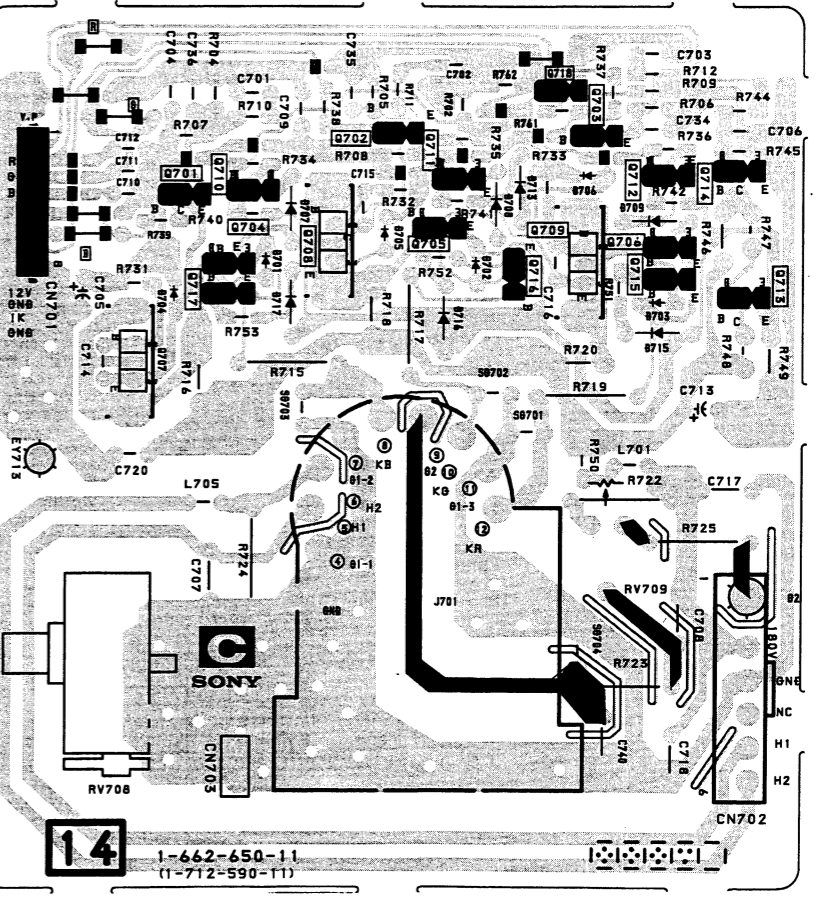


C [R.G.B OUT]

-C BOARD- PVM-14M2U/14M2E/14M2A ONLY

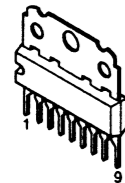


-C BOARD- PVM-14M4U/14M4E/14M4A ONLY

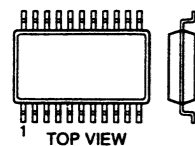


6-5. SEMICONDUCTORS

AN5265

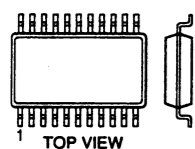


BA10324AF
MC14024BF
MC14066BF
MC14584BF
MC74HC86F

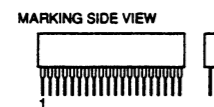


14pin SOP

BA7655AF-E2
CXA1211M
LM358D
MM1111XF
MM1113XFF
NJM2245M
ST24C02FM6TR
XRA10393F
XRA4558F-E2

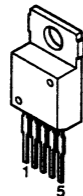


H8D7248

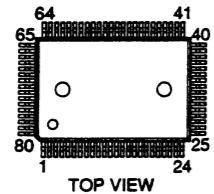


11pin SIP

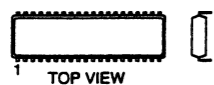
MC14052BF
MC14538BF



MC14094BF

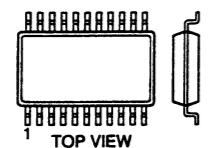


M51279FP



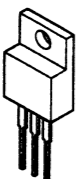
32pin DIP

M62358FP-E1

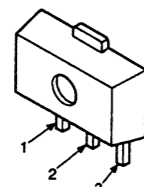


24pin SOP

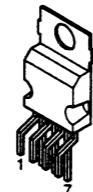
NJM78M05FA
TA7805S
TA7812S



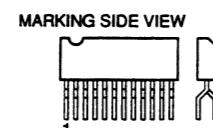
S-80743AL-A7-S



STR-M6524

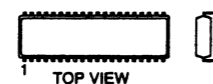


STR-S3115



9pin ZIP

ST24C01FM6TR



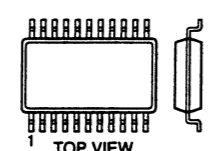
8pin DIP

UPC1377C



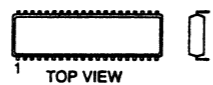
22pin DIP

UPD6451AGT-632-E2



20pin SOP

UPD78P018FYCW-M01

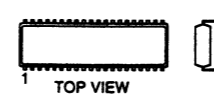


64pin DIP

XRA17812T

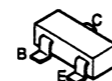


Z8622812PSC

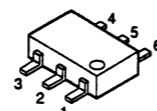


18pin DIP

DTA144EKA-T146
DTC124EKA-T146
DTC144EKA-T146
2SA1162-G
2SB709A-R
2SC1623-L5L6
2SD601A-S



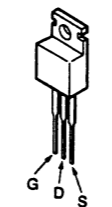
1MT1US



1MX1



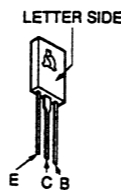
1RF520



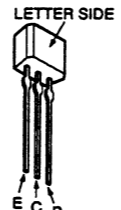
2SA1091-0
2SC2551-0



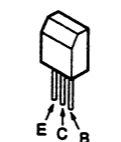
2SA1220A-P
2SA1407-D
2SC2611
2SC2688-LK
2SC2690A-Q



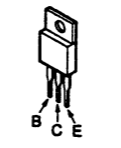
2SC2785-HFE



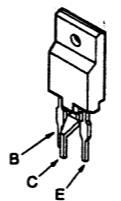
2SC2958
2SD774-34



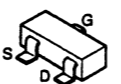
2SC3851-G
2SC4686A (LBSony)
2SD1133
2SD1134
2SD2396K



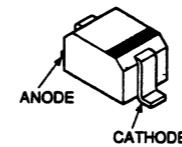
2SD1878-CA



2SK94
2SK94-X2X3X4



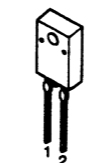
DTZ11B
DTZ13C
DTZ5.6B
DTZ6.2
MA111



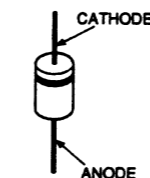
D4SB60L



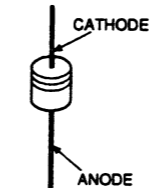
D5L60
FML-G12S



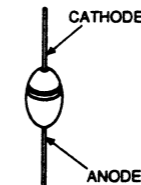
EGP20G
EL1Z
ERD07-15
RGP02-17EL-6433
RGP15K-6179
UF5406
10E2
1S2076
1SS83



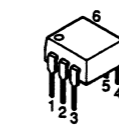
ERA15-06
RD16ES-B1
RD16ES-B3
1SS119-25
1SS133T-77



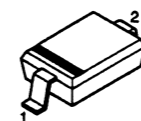
ERC38-06
V11N



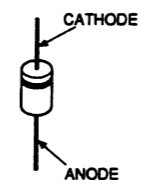
PC111YS



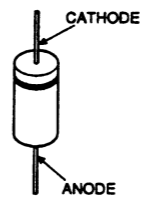
RD10SB1



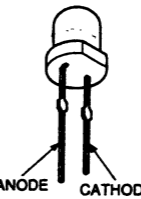
RH-1A



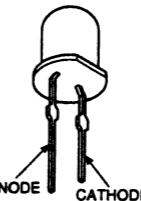
RU-3AM



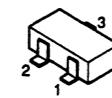
SEL3810DLC05



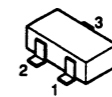
SLP281C-50
TLY123



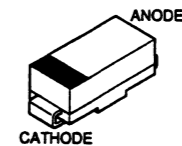
1SS184



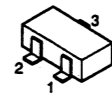
1SS226



1SV230TPH3
1SV232-TPH3



1S2836



SECTION 7 EXPLODED VIEWS

NOTE:

• Items with no part number and no description are not stocked because they are seldom required for routine service.

7-1. CHASSIS

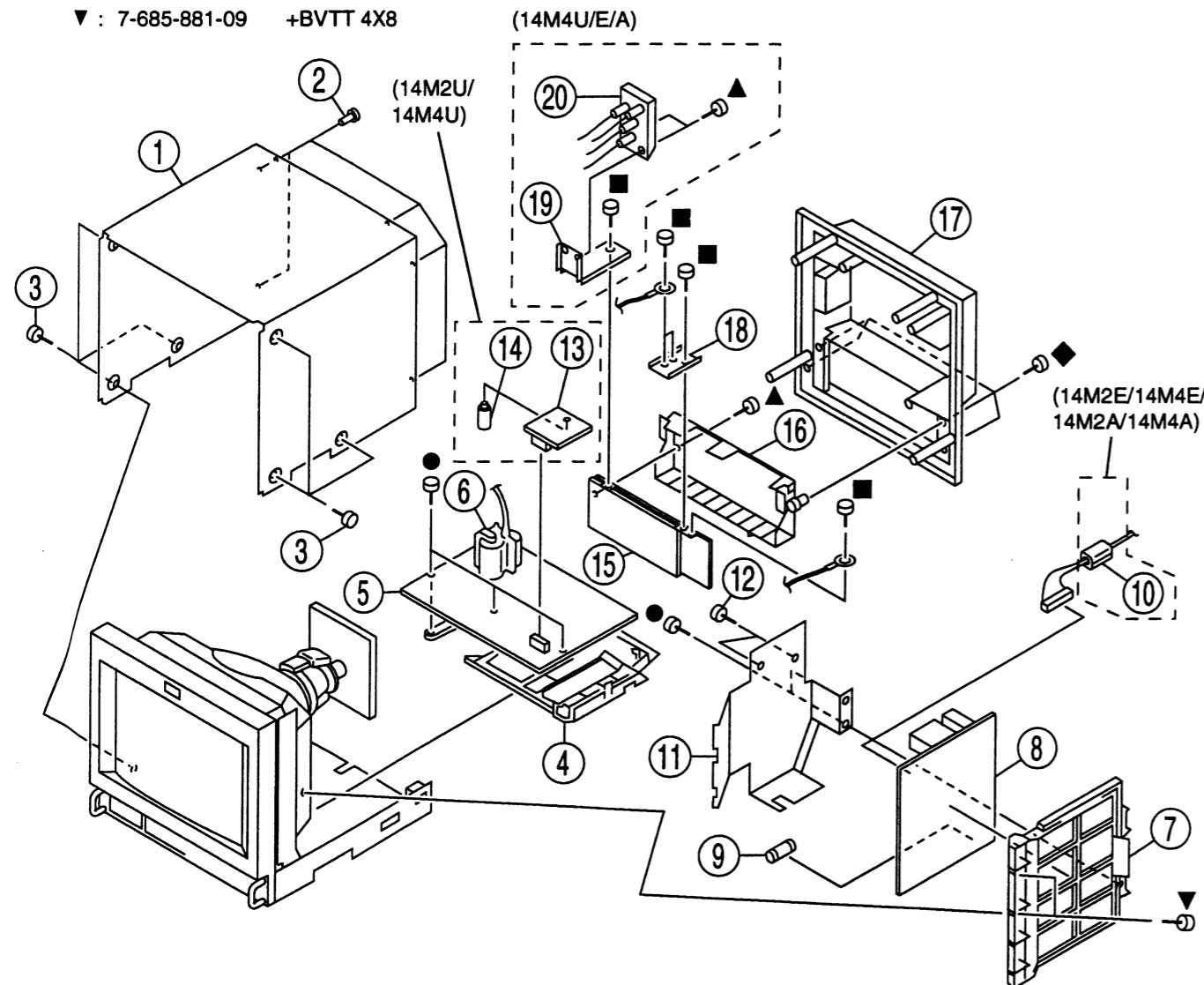
- : 7-685-648-79 +BVTP 3X12
- : 7-682-661-01 +PS 4X8
- ▲ : 7-685-646-79 +BVTP 3X8
- ◆ : 7-685-663-79 +BVTP 4X16
- ▼ : 7-685-881-09 +BVTT 4X8

• The construction parts of an assembled part are indicated with a collation number in the remark column.

• Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified by shading and mark Δ are critical for safety. Replace only with part number specified.

Les composants identifiés par une trame et une marque Δ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.



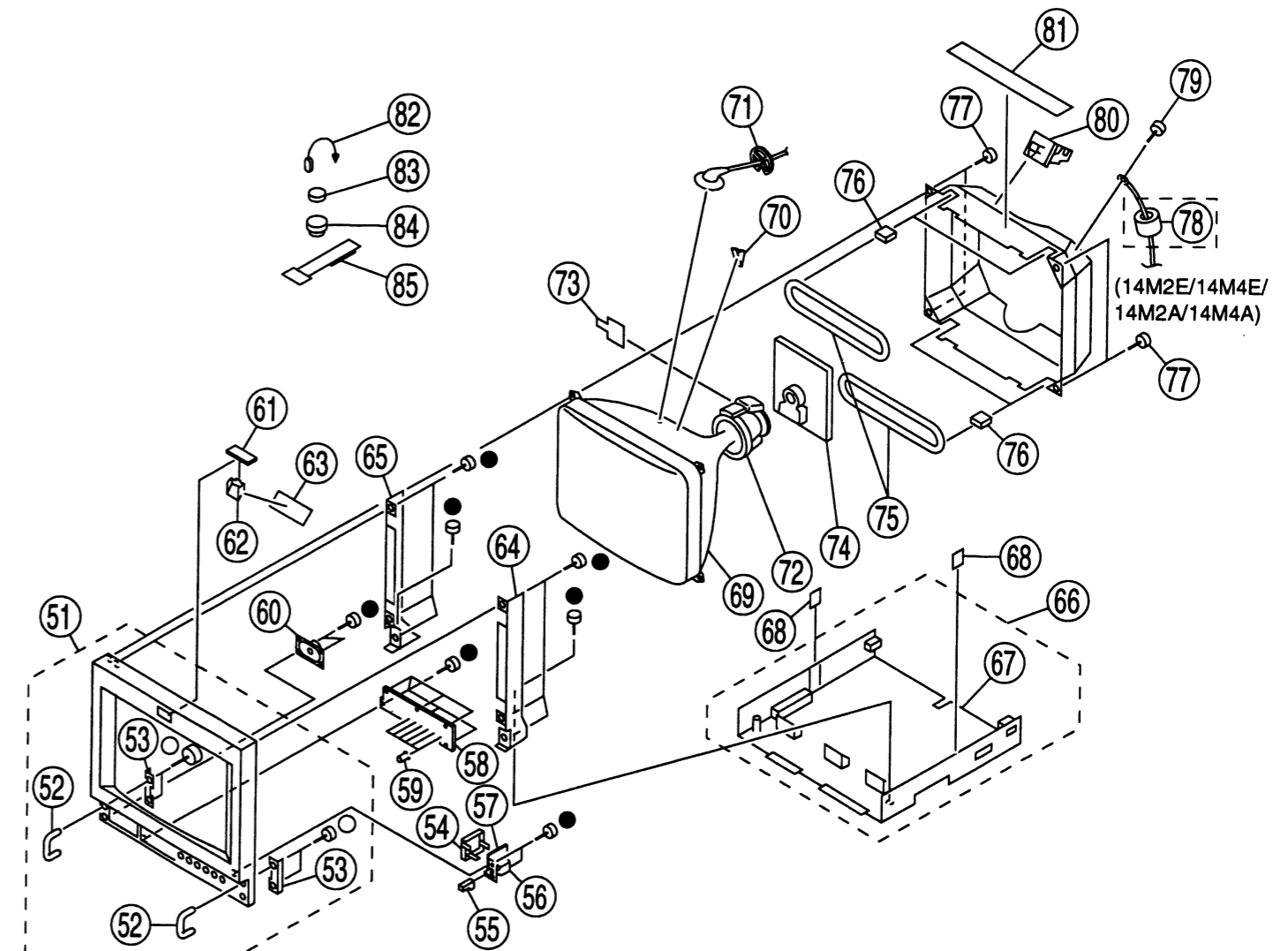
| REF. NO. | PART NO. | DESCRIPTION | REMARK | REF. NO. | PART NO. | DESCRIPTION | REMARK |
|----------|-----------------------|--|--------|----------|-----------------------|---|--------|
| 1 | X-0515-323-0 | COVER ASSY, TOP (14M2U/14M4U/14M2E/14M4E) | | 9 | Δ 1-576-231-11 | FUSE (H.B.C.) 4A/250V | |
| 2 | X-4034-350-1 | COVER ASSY, TOP (14M2A/14M4A) | | 10 | 1-543-653-11 | CORE ASSY, BEAD (DIVISION TYPE) | |
| 3 | 4-391-825-01 | RIVET, NYLON | | 11 | * 4-057-974-01 | SHIELD, G PC BOARD | |
| 4 | * 4-043-690-01 | SCREW (OS), CASE, CLAW | | 12 | 4-382-854-11 | SCREW (M3X10), P, SW (+) | |
| 5 | * A-1298-002-A | A BOARD, COMPLETE (14M4U/E/A) | | 13 | * A-1390-705-A | S BOARD, COMPLETE (14M2U/14M4U) | |
| 6 | * A-1298-006-A | A BOARD, COMPLETE (14M2U/E/A) | | 14 | * 3-687-542-41 | SPACER, PC BOARD SPACE (14M2U/14M4U) | |
| 7 | Δ 1-453-232-11 | TRANSFORMER ASSY, FLYBACK (14M2U/E/A) | | 15 | 1-537-735-14 | TERMINAL BOARD ASSY, I/O (A) (Q BOARD) | |
| 8 | Δ 1-453-233-11 | TRANSFORMER ASSY, FLYBACK (14M4U/E/A) | | 16 | 4-043-688-01 | PANEL, CONNECTOR | |
| | | | | 17 | 4-055-635-01 | COVER, REAR | |
| | | | | 18 | * 4-058-363-01 | TERMINAL, EARTH | |
| | | | | 19 | 4-057-971-01 | BRACKET, FOCUS VOLUME | |
| | | | | 20 | Δ 1-223-417-11 | RESISTOR ASSY (HIGH-VOLTAGE) (14M4U/E/A) | |

7-2. PICTURE TUBE

- : 7-685-648-79 +BVTP 3X12
- : 7-682-563-09 +B 4X12

The components identified by shading and mark Δ are critical for safety. Replace only with part number specified.

Les composants identifiés par une trame et une marque Δ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.



| REF. NO. | PART NO. | DESCRIPTION | REMARK | REF. NO. | PART NO. | DESCRIPTION | REMARK |
|----------|-----------------------|---------------------------------|---------|----------|-----------------------|--|--------|
| 51 | X-4034-349-1 | BEZEL ASSY (14M2U/E/A) | 52, 53 | 69 | Δ 8-738-333-05 | PICTURE TUBE 14MT1 (L-BVM, PVM) | |
| 52 | X-4034-351-1 | BEZEL ASSY (14M4U/E/A) | 52, 53 | 70 | Δ 8-738-342-05 | PICTURE TUBE 14MG (DARK) (14M2U/E/A) | |
| 53 | 4-052-200-01 | HANDLE, PROTECTOR | | 71 | 3-703-961-01 | SPACER, DY | |
| 54 | * 4-043-679-01 | REINFORCEMENT, HANDLE | | 72 | 3-704-372-01 | HOLDER, HV CABLE | |
| 55 | 4-043-681-01 | COVER, AC SWITCH | | 73 | Δ 1-451-457-11 | DEFLECTION YOKE (14M4U/E/A) | |
| 56 | 4-043-683-01 | BUTTON, POWER SWITCH | | 74 | Δ 8-451-472-11 | DEFLECTION YOKE (14M2U/E/A) | |
| 57 | Δ 1-692-921-01 | SWITCH, PUSH (A.C. POWER) | | 75 | X-2105-533-1 | PLATE ASSY, CORRECTION, TLH | |
| 58 | * A-1388-193-A | J BOARD, COMPLETE | | 76 | * A-1331-627-A | C BOARD, COMPLETE (14M4U/E/A) | |
| 59 | * A-1372-302-A | H BOARD, COMPLETE | | 77 | * A-1331-631-A | C BOARD, COMPLETE (14M2U/E/A) | |
| 60 | 4-043-802-02 | KNOB, CONTROL | | 78 | Δ 1-426-442-21 | COIL, DEMAGNETIZATION | |
| 61 | 1-544-063-12 | SPEAKER | | 79 | * 4-316-015-00 | HOLDER, WIRE | |
| 62 | * A-1390-704-A | X BOARD, COMPLETE | | 80 | 4-365-808-01 | SCREW (5), TAPPING | |
| 63 | * 4-043-682-01 | REFLECTOR, LED | | | 1-543-827-11 | CLAMP, SLEEVE FERRITE (14M2E/14M4E/14M2A/14M4A) | |
| 64 | 4-044-606-01 | CUSHION, TALLY | | | 4-389-025-01 | SCREW (M4) (EXT TOOTH WASHER) | |
| 65 | * A-1450-188-A | BRACKET ASSY (R), SIDE | | | 4-033-681-01 | HOLDER, LEAD | |
| 66 | * A-1450-187-A | BRACKET ASSY (L), SIDE | | 81 | 4-391-833-01 | CLOTH, PROTECTION | |
| 67 | X-4031-711-1 | CABINET ASSY, BOTTOM | 67 | 82 | 4-308-870-00 | CLIP, LEAD WIRE | |
| 68 | 4-391-840-04 | CABINET, BOTTOM | | 83 | 1-452-032-00 | MAGNET, DISK ; 10mm ϕ | |
| 69 | 4-042-608-01 | NUT, PLATE | | 84 | 1-452-094-00 | MAGNET, ROTATABLE DISK ; 15mm ϕ | |
| | Δ 8-738-335-05 | PICTURE TUBE 14MT3 (L-BVM, PVM) | (14M4U) | 85 | 4-051-736-21 | PIECE A(90), CONV. CORRECT | |

SECTION 8

ELECTRICAL PARTS LIST

A

NOTE:

Les composants identifiés par une trame et une marque Δ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

The components identified by shading and mark Δ are critical for safety. Replace only with part number specified.

• The components identified by \boxtimes in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.

• Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

• All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

When indicating parts by reference number, please include the board name.

RESISTORS

- All resistors are in ohms
- F : nonflammable

CAPACITORS

PF : $\mu\mu\text{F}$

• There are some cases the reference number on one board overlaps on the other board. Therefore, when ordering parts by the reference number, please include the board name.

| REF. NO. | PART NO. | DESCRIPTION | REMARK | REF. NO. | PART NO. | DESCRIPTION | REMARK |
|----------|----------------|----------------------------|---------|----------|--------------|---------------------------|------------|
| | * A-1298-002-A | A BOARD, COMPLETE ***** | | C201 | 1-137-353-11 | MYLAR 0.047MF 10% | 100V |
| | | (PVM-14M4U/E/A) | | C202 | 1-163-017-00 | CERAMIC CHIP 0.0047MF 10% | 50V |
| | * A-1298-006-A | A BOARD, COMPLETE ***** | | C203 | 1-126-963-11 | ELECT 4.7MF 20% | 50V |
| | | (PVM-14M2U/E/A) | | C204 | 1-126-964-11 | ELECT 10MF 20% | 50V |
| | * 4-043-994-01 | PLATE (CF), SHIELD | | C205 | 1-126-767-11 | ELECT 1000MF 20% | 16V |
| | 4-382-854-11 | SCREW (M3X10), P, SW (+) | | C206 | 1-128-526-11 | ELECT 100MF 20% | 25V |
| | 7-682-948-01 | SCREW +PSW 3X8 | | C207 | 1-104-665-11 | ELECT 100MF 20% | 25V |
| | | <BAND PASS FILTER> | | C208 | 1-126-964-11 | ELECT 10MF 20% | 50V |
| BPF400 | 1-236-363-11 | FILTER, BAND PASS | | C209 | 1-126-963-11 | ELECT 4.7MF 20% | 50V |
| | | <CAPACITOR> | | C300 | 1-163-031-11 | CERAMIC CHIP 0.01MF | 50V |
| | | | | C301 | 1-163-086-00 | CERAMIC CHIP 3PF | 0.25PF 50V |
| C105 | 1-163-251-11 | CERAMIC CHIP 100PF | 5% 50V | C302 | 1-163-086-00 | CERAMIC CHIP 3PF | 0.25PF 50V |
| C106 | 1-163-251-11 | CERAMIC CHIP 100PF | 5% 50V | C304 | 1-164-004-11 | CERAMIC CHIP 0.1MF | 10% 25V |
| C114 | 1-163-031-11 | CERAMIC CHIP 0.01MF | 50V | C305 | 1-163-259-91 | CERAMIC CHIP 220PF | 5% 50V |
| C115 | 1-163-031-11 | CERAMIC CHIP 0.01MF | 50V | C306 | 1-163-031-11 | CERAMIC CHIP 0.01MF | 50V |
| C116 | 1-163-031-11 | CERAMIC CHIP 0.01MF | 50V | C309 | 1-163-031-11 | CERAMIC CHIP 0.01MF | 50V |
| C117 | 1-163-031-11 | CERAMIC CHIP 0.01MF | 50V | C310 | 1-164-004-11 | CERAMIC CHIP 0.1MF | 10% 25V |
| C118 | 1-163-259-91 | CERAMIC CHIP 220PF | 5% 50V | C311 | 1-163-809-11 | CERAMIC CHIP 0.047MF | 10% 25V |
| C119 | 1-165-319-11 | CERAMIC CHIP 0.1MF | 50V | C312 | 1-126-961-11 | ELECT 2.2MF 20% | 50V |
| C121 | 1-163-237-11 | CERAMIC CHIP 27PF | 5% 50V | C313 | 1-163-145-00 | CERAMIC CHIP 0.0015MF | 5% 50V |
| C123 | 1-165-319-11 | CERAMIC CHIP 0.1MF | 50V | C314 | 1-163-249-11 | CERAMIC CHIP 82PF | 5% 50V |
| C124 | 1-163-251-11 | CERAMIC CHIP 100PF | 5% 50V | C315 | 1-126-964-11 | ELECT 10MF | 20% 50V |
| C132 | 1-163-141-00 | CERAMIC CHIP 0.001MF | 5% 50V | C316 | 1-104-664-11 | ELECT 47MF | 20% 25V |
| C133 | 1-163-251-11 | CERAMIC CHIP 100PF | 5% 50V | C317 | 1-163-231-11 | CERAMIC CHIP 15PF | 5% 50V |
| C134 | 1-163-251-11 | CERAMIC CHIP 100PF | 5% 50V | C318 | 1-126-964-11 | ELECT 10MF | 20% 50V |
| C135 | 1-163-251-11 | CERAMIC CHIP 100PF | 5% 50V | C319 | 1-163-222-11 | CERAMIC CHIP 5PF | 0.25PF 50V |
| C136 | 1-163-251-11 | CERAMIC CHIP 100PF | 5% 50V | C320 | 1-163-031-11 | CERAMIC CHIP 0.01MF | 50V |
| C140 | 1-164-004-11 | CERAMIC CHIP 0.1MF | 10% 25V | C322 | 1-163-119-00 | CERAMIC CHIP 120PF | 5% 50V |
| C141 | 1-164-161-11 | CERAMIC CHIP 0.0022MF | 10% 50V | C323 | 1-163-231-11 | CERAMIC CHIP 15PF | 5% 50V |
| C142 | 1-163-259-91 | CERAMIC CHIP 220PF | 5% 50V | C324 | 1-163-235-11 | CERAMIC CHIP 22PF | 5% 50V |
| C143 | 1-165-319-11 | CERAMIC CHIP 0.1MF | 50V | C325 | 1-126-964-11 | ELECT 10MF | 20% 50V |
| C144 | 1-165-319-11 | CERAMIC CHIP 0.1MF | 50V | C326 | 1-164-004-11 | CERAMIC CHIP 0.1MF | 10% 25V |
| C145 | 1-165-319-11 | CERAMIC CHIP 0.1MF | 50V | C327 | 1-164-004-11 | CERAMIC CHIP 0.1MF | 10% 25V |
| C154 | 1-163-037-11 | CERAMIC CHIP 0.022MF | 10% 50V | C328 | 1-163-031-11 | CERAMIC CHIP 0.01MF | 50V |
| C155 | 1-163-023-00 | CERAMIC CHIP 0.015MF | 10% 50V | C329 | 1-163-251-11 | CERAMIC CHIP 100PF | 5% 50V |
| C156 | 1-163-019-00 | CERAMIC CHIP 0.0068MF | 10% 50V | C330 | 1-163-243-11 | CERAMIC CHIP 47PF | 5% 50V |
| C157 | 1-163-019-00 | CERAMIC CHIP 0.0068MF | 10% 50V | C331 | 1-163-231-11 | CERAMIC CHIP 15PF | 5% 50V |
| C158 | 1-163-809-11 | CERAMIC CHIP 0.047MF | 10% 25V | C332 | 1-164-004-11 | CERAMIC CHIP 0.1MF | 10% 25V |
| C159 | 1-164-344-11 | CERAMIC CHIP 0.068MF | 10% 25V | C333 | 1-163-031-11 | CERAMIC CHIP 0.01MF | 50V |
| C161 | 1-104-664-11 | ELECT 47MF | 20% 25V | C334 | 1-163-141-00 | CERAMIC CHIP 0.001MF | 5% 50V |
| C162 | 1-163-141-00 | CERAMIC CHIP 0.001MF | 5% 50V | C335 | 1-163-141-00 | CERAMIC CHIP 0.001MF | 5% 50V |
| C164 | 1-165-319-11 | CERAMIC CHIP 0.1MF | 50V | C336 | 1-104-664-11 | ELECT 47MF | 20% 25V |
| C165 | 1-165-319-11 | CERAMIC CHIP 0.1MF | 50V | C337 | 1-163-031-11 | CERAMIC CHIP 0.01MF | 50V |
| C166 | 1-164-004-11 | CERAMIC CHIP 0.1MF | 10% 25V | C338 | 1-163-119-00 | CERAMIC CHIP 120PF | 5% 50V |
| C167 | 1-126-925-11 | ELECT 470MF | 20% 10V | C339 | 1-163-231-11 | CERAMIC CHIP 15PF | 5% 50V |
| C168 | 1-126-925-11 | ELECT 470MF | 20% 10V | C340 | 1-163-031-11 | CERAMIC CHIP 0.01MF | 50V |
| C169 | 1-164-232-11 | CERAMIC CHIP 0.01MF | 10% 50V | C341 | 1-163-119-00 | CERAMIC CHIP 120PF | 5% 50V |
| C171 | 1-163-251-11 | CERAMIC CHIP 100PF | 5% 50V | C342 | 1-163-018-00 | CERAMIC CHIP 0.0056MF | 10% 50V |
| C174 | 1-163-243-11 | CERAMIC CHIP 47PF | 5% 50V | C343 | 1-163-031-11 | CERAMIC CHIP 0.01MF | 50V |
| C200 | 1-126-963-11 | ELECT 4.7MF | 20% 50V | C344 | 1-163-141-00 | CERAMIC CHIP 0.001MF | 5% 50V |
| | | | | C345 | 1-163-141-00 | CERAMIC CHIP 0.001MF | 5% 50V |
| | | | | C346 | 1-126-960-11 | ELECT 1MF | 20% 50V |
| | | | | C347 | 1-163-243-11 | CERAMIC CHIP 47PF | 5% 50V |



| REF. NO. | PART NO. | DESCRIPTION | REMARK | REF. NO. | PART NO. | DESCRIPTION | REMARK |
|----------|--------------|-----------------------|----------|----------|--------------|----------------------|------------|
| C348 | 1-164-004-11 | CERAMIC CHIP 0.1MF | 10% 25V | C420 | 1-163-809-11 | CERAMIC CHIP 0.047MF | 10% 25V |
| C349 | 1-163-141-00 | CERAMIC CHIP 0.001MF | 5% 50V | C421 | 1-164-222-11 | CERAMIC CHIP 0.22MF | 25V |
| C350 | 1-163-141-00 | CERAMIC CHIP 0.001MF | 5% 50V | C422 | 1-126-960-11 | ELECT 1MF | 20% 50V |
| C351 | 1-104-664-11 | ELECT 47MF | 20% 25V | C423 | 1-163-809-11 | CERAMIC CHIP 0.047MF | 10% 25V |
| C352 | 1-163-031-11 | CERAMIC CHIP 0.01MF | 50V | C424 | 1-163-809-11 | CERAMIC CHIP 0.047MF | 10% 25V |
| C353 | 1-165-319-11 | CERAMIC CHIP 0.1MF | 50V | C426 | 1-163-243-11 | CERAMIC CHIP 47PF | 5% 50V |
| C354 | 1-163-121-00 | CERAMIC CHIP 150PF | 5% 50V | C427 | 1-163-031-11 | CERAMIC CHIP 0.01MF | 50V |
| C355 | 1-126-960-11 | ELECT 1MF | 20% 50V | C428 | 1-104-661-91 | ELECT 330MF | 20% 16V |
| C356 | 1-126-963-11 | ELECT 4.7MF | 20% 50V | C429 | 1-163-031-11 | CERAMIC CHIP 0.01MF | 50V |
| C357 | 1-163-031-11 | CERAMIC CHIP 0.01MF | 50V | C430 | 1-104-661-91 | ELECT 330MF | 20% 16V |
| C358 | 1-163-031-11 | CERAMIC CHIP 0.01MF | 50V | C431 | 1-165-319-11 | CERAMIC CHIP 0.1MF | 50V |
| C359 | 1-104-664-11 | ELECT 47MF | 20% 25V | C432 | 1-164-004-11 | CERAMIC CHIP 0.1MF | 10% 25V |
| C360 | 1-164-232-11 | CERAMIC CHIP 0.01MF | 10% 50V | C433 | 1-163-235-11 | CERAMIC CHIP 22PF | 5% 50V |
| C361 | 1-163-031-11 | CERAMIC CHIP 0.01MF | 50V | C434 | 1-164-004-11 | CERAMIC CHIP 0.1MF | 10% 25V |
| C362 | 1-163-031-11 | CERAMIC CHIP 0.01MF | 50V | C435 | 1-163-089-00 | CERAMIC CHIP 6PF | 0.25PF 50V |
| C363 | 1-163-099-00 | CERAMIC CHIP 18PF | 5% 50V | C436 | 1-164-004-11 | CERAMIC CHIP 0.1MF | 10% 25V |
| C364 | 1-163-031-11 | CERAMIC CHIP 0.01MF | 50V | C437 | 1-164-004-11 | CERAMIC CHIP 0.1MF | 10% 25V |
| C365 | 1-106-343-00 | MYLAR 0.001MF | 10% 100V | C438 | 1-163-809-11 | CERAMIC CHIP 0.047MF | 10% 25V |
| C366 | 1-163-031-11 | CERAMIC CHIP 0.01MF | 50V | C439 | 1-163-809-11 | CERAMIC CHIP 0.047MF | 10% 25V |
| C367 | 1-163-031-11 | CERAMIC CHIP 0.01MF | 50V | C440 | 1-164-004-11 | CERAMIC CHIP 0.1MF | 10% 25V |
| C368 | 1-124-261-00 | ELECT 10MF | 20% 50V | C441 | 1-126-962-11 | ELECT 3.3MF | 20% 50V |
| C369 | 1-164-298-11 | CERAMIC CHIP 0.15MF | 10% 25V | C442 | 1-163-809-11 | CERAMIC CHIP 0.047MF | 10% 25V |
| C370 | 1-104-664-11 | ELECT 47MF | 20% 25V | C443 | 1-163-243-11 | CERAMIC CHIP 47PF | 5% 50V |
| C371 | 1-104-664-11 | ELECT 47MF | 20% 25V | C444 | 1-165-319-11 | CERAMIC CHIP 0.1MF | 50V |
| C372 | 1-163-031-11 | CERAMIC CHIP 0.01MF | 50V | C445 | 1-163-809-11 | CERAMIC CHIP 0.047MF | 10% 25V |
| C373 | 1-163-141-00 | CERAMIC CHIP 0.001MF | 5% 50V | C446 | 1-163-089-00 | CERAMIC CHIP 6PF | 0.25PF 50V |
| C374 | 1-126-960-11 | ELECT 1MF | 20% 50V | C447 | 1-163-263-11 | CERAMIC CHIP 330PF | 5% 50V |
| C375 | 1-163-259-91 | CERAMIC CHIP 220PF | 5% 50V | C448 | 1-163-243-11 | CERAMIC CHIP 47PF | 5% 50V |
| C376 | 1-126-959-11 | ELECT 0.47MF | 20% 50V | C449 | 1-163-227-11 | CERAMIC CHIP 10PF | 0.5PF 50V |
| C377 | 1-163-809-11 | CERAMIC CHIP 0.047MF | 10% 25V | C450 | 1-163-809-11 | CERAMIC CHIP 0.047MF | 10% 25V |
| C378 | 1-163-809-11 | CERAMIC CHIP 0.047MF | 10% 25V | C451 | 1-164-004-11 | CERAMIC CHIP 0.1MF | 10% 25V |
| C379 | 1-163-031-11 | CERAMIC CHIP 0.01MF | 50V | C452 | 1-163-263-11 | CERAMIC CHIP 330PF | 5% 50V |
| C380 | 1-126-767-11 | ELECT 1000MF | 20% 16V | C453 | 1-164-004-11 | CERAMIC CHIP 0.1MF | 10% 25V |
| C381 | 1-163-031-11 | CERAMIC CHIP 0.01MF | 50V | C454 | 1-163-243-11 | CERAMIC CHIP 47PF | 5% 50V |
| C382 | 1-163-243-11 | CERAMIC CHIP 47PF | 5% 50V | C455 | 1-163-263-11 | CERAMIC CHIP 330PF | 5% 50V |
| C383 | 1-104-664-11 | ELECT 47MF | 20% 25V | C456 | 1-163-089-00 | CERAMIC CHIP 6PF | 0.25PF 50V |
| C384 | 1-163-249-11 | CERAMIC CHIP 82PF | 5% 50V | C457 | 1-164-004-11 | CERAMIC CHIP 0.1MF | 10% 25V |
| C385 | 1-104-664-11 | ELECT 47MF | 20% 25V | C458 | 1-163-249-11 | CERAMIC CHIP 82PF | 5% 50V |
| C386 | 1-124-261-00 | ELECT 10MF | 20% 50V | C459 | 1-165-319-11 | CERAMIC CHIP 0.1MF | 50V |
| C387 | 1-163-141-00 | CERAMIC CHIP 0.001MF | 5% 50V | C460 | 1-164-004-11 | CERAMIC CHIP 0.1MF | 10% 25V |
| C388 | 1-124-261-00 | ELECT 10MF | 20% 50V | C461 | 1-163-119-00 | CERAMIC CHIP 120PF | 5% 50V |
| C389 | 1-104-664-11 | ELECT 47MF | 20% 25V | C462 | 1-164-004-11 | CERAMIC CHIP 0.1MF | 10% 25V |
| C390 | 1-163-243-11 | CERAMIC CHIP 47PF | 5% 50V | C463 | 1-164-004-11 | CERAMIC CHIP 0.1MF | 10% 25V |
| C391 | 1-104-664-11 | ELECT 47MF | 20% 25V | C464 | 1-164-299-11 | CERAMIC CHIP 0.22MF | 10% 25V |
| C392 | 1-164-298-11 | CERAMIC CHIP 0.15MF | 10% 25V | C465 | 1-163-231-11 | CERAMIC CHIP 15PF | 5% 50V |
| C393 | 1-164-298-11 | CERAMIC CHIP 0.15MF | 10% 25V | C466 | 1-163-119-00 | CERAMIC CHIP 120PF | 5% 50V |
| C394 | 1-104-664-11 | ELECT 47MF | 20% 25V | C467 | 1-163-119-00 | CERAMIC CHIP 120PF | 5% 50V |
| C395 | 1-163-235-11 | CERAMIC CHIP 22PF | 5% 50V | C469 | 1-163-037-11 | CERAMIC CHIP 0.022MF | 10% 50V |
| C396 | 1-164-299-11 | CERAMIC CHIP 0.22MF | 10% 25V | C470 | 1-163-243-11 | CERAMIC CHIP 47PF | 5% 50V |
| C397 | 1-104-664-11 | ELECT 47MF | 20% 25V | C471 | 1-163-105-00 | CERAMIC CHIP 33PF | 5% 50V |
| C398 | 1-104-664-11 | ELECT 47MF | 20% 25V | C472 | 1-163-031-11 | CERAMIC CHIP 0.01MF | 50V |
| C399 | 1-104-664-11 | ELECT 47MF | 20% 25V | C473 | 1-163-031-11 | CERAMIC CHIP 0.01MF | 50V |
| C400 | 1-164-004-11 | CERAMIC CHIP 0.1MF | 10% 25V | C475 | 1-163-031-11 | CERAMIC CHIP 0.01MF | 50V |
| C401 | 1-164-346-11 | CERAMIC CHIP 1MF | 16V | C476 | 1-163-031-11 | CERAMIC CHIP 0.01MF | 50V |
| C402 | 1-126-967-11 | ELECT 47MF | 20% 50V | C477 | 1-164-299-11 | CERAMIC CHIP 0.22MF | 10% 25V |
| C403 | 1-164-232-11 | CERAMIC CHIP 0.01MF | 10% 50V | C478 | 1-126-964-11 | ELECT 10MF | 20% 50V |
| C406 | 1-126-965-11 | ELECT 22MF | 20% 50V | C479 | 1-163-121-00 | CERAMIC CHIP 150PF | 5% 50V |
| C407 | 1-104-664-11 | ELECT 47MF | 20% 25V | C482 | 1-126-925-11 | ELECT 470MF | 20% 10V |
| C408 | 1-164-232-11 | CERAMIC CHIP 0.01MF | 10% 50V | C483 | 1-163-249-11 | CERAMIC CHIP 82PF | 5% 50V |
| C409 | 1-163-031-11 | CERAMIC CHIP 0.01MF | 50V | C484 | 1-163-113-00 | CERAMIC CHIP 68PF | 5% 50V |
| C410 | 1-126-965-11 | ELECT 22MF | 20% 50V | C485 | 1-163-113-00 | CERAMIC CHIP 68PF | 5% 50V |
| C411 | 1-164-004-11 | CERAMIC CHIP 0.1MF | 10% 25V | C486 | 1-163-249-11 | CERAMIC CHIP 82PF | 5% 50V |
| C414 | 1-163-031-11 | CERAMIC CHIP 0.01MF | 50V | C487 | 1-163-235-11 | CERAMIC CHIP 22PF | 5% 50V |
| C415 | 1-126-964-11 | ELECT 10MF | 20% 50V | C490 | 1-164-336-11 | CERAMIC CHIP 0.33MF | 25V |
| C416 | 1-164-232-11 | CERAMIC CHIP 0.01MF | 10% 50V | C491 | 1-164-336-11 | CERAMIC CHIP 0.33MF | 25V |
| C417 | 1-164-232-11 | CERAMIC CHIP 0.01MF | 10% 50V | C492 | 1-164-336-11 | CERAMIC CHIP 0.33MF | 25V |
| C418 | 1-164-182-11 | CERAMIC CHIP 0.0033MF | 10% 50V | C493 | 1-104-760-11 | CERAMIC CHIP 0.047MF | 10% 50V |
| C419 | 1-126-925-11 | ELECT 470MF | 20% 10V | C494 | 1-164-005-11 | CERAMIC CHIP 0.47MF | 25V |
| | | | | C495 | 1-126-964-11 | ELECT 10MF | 20% 50V |

The components identified by shading and mark Δ are critical for safety. Replace only with part number specified.

Les composants identifiés par une trame et une marque Δ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.



| REF. NO. | PART NO. | DESCRIPTION | REMARK |
|----------|-----------------------|---------------------------|------------------|
| C496 | 1-163-249-11 | CERAMIC CHIP 82PF 5% | 50V |
| C497 | 1-163-011-11 | CERAMIC CHIP 0.0015MF 10% | 50V |
| C498 | 1-126-961-11 | ELECT 2.2MF 20% | 50V |
| C499 | 1-163-031-11 | CERAMIC CHIP 0.01MF | 50V |
| C500 | 1-164-004-11 | CERAMIC CHIP 0.1MF 10% | 25V |
| C501 | 1-164-182-11 | CERAMIC CHIP 0.0033MF 10% | 50V |
| C502 | 1-163-141-00 | CERAMIC CHIP 0.001MF 5% | 50V |
| C503 | 1-163-251-11 | CERAMIC CHIP 100PF 5% | 50V |
| C504 | 1-136-495-11 | FILM 0.068MF 5% | 50V |
| C505 | 1-163-199-00 | CERAMIC CHIP 560PF 5% | 50V |
| C506 | 1-126-959-11 | ELECT 0.47MF 20% | 50V |
| C507 | 1-128-526-11 | ELECT 100MF 20% | 25V |
| C508 | 1-130-497-00 | MYLAR 0.15MF 5% | 50V |
| C509 | 1-128-566-11 | ELECT 470MF 20% | 100V |
| C511 | 1-107-368-11 | FILM 0.047MF 10% | 200V |
| C512 | 1-126-959-11 | ELECT 0.47MF 20% | 50V |
| C513 | 1-124-261-00 | ELECT 10MF 20% | 50V |
| C514 | Δ 1-129-715-91 | FILM 0.012MF 10% | 630V |
| C514 | Δ 1-130-338-91 | FILM 0.01MF 5% | (14M4U/E/A) 630V |
| C515 | 1-163-809-11 | CERAMIC CHIP 0.047MF 10% | 25V |
| C516 | 1-102-030-00 | CERAMIC 330PF 10% | 500V |
| C517 | 1-163-024-00 | CERAMIC CHIP 0.018MF 10% | 50V |
| C518 | 1-107-947-11 | ELECT 220MF 20% | 160V |
| C519 | 1-163-017-00 | CERAMIC CHIP 0.0047MF 10% | 50V |
| C520 | 1-163-257-11 | CERAMIC CHIP 180PF 5% | 50V |
| C521 | 1-162-114-00 | CERAMIC 0.0047MF | 2KV |
| C522 | 1-126-768-11 | ELECT 2200MF 20% | 16V |
| C523 | 1-107-902-11 | ELECT 1MF 20% | 50V |
| C525 | Δ 1-136-080-11 | FILM 0.011MF 3% | 2KV |
| C525 | Δ 1-136-079-11 | FILM 0.01MF 3% | (14M4U/E/A) 2KV |
| C526 | Δ 1-162-116-91 | CERAMIC 680PF 10% | (14M2U/E/A) 2KV |
| C527 | 1-162-134-11 | CERAMIC 470PF 10% | 2KV |
| C529 | 1-107-901-11 | ELECT 0.47MF 20% | (14M2U/E/A) 50V |
| C530 | 1-104-666-11 | ELECT 220MF 20% | 25V |
| C531 | 1-104-664-11 | ELECT 47MF 20% | 25V |
| C532 | 1-163-031-11 | CERAMIC CHIP 0.01MF | 50V |
| C533 | 1-102-212-00 | CERAMIC 820PF 10% | 500V |
| C534 | 1-107-662-11 | ELECT 22MF 20% | 250V |
| C537 | 1-126-971-11 | ELECT 470MF 20% | 50V |
| C538 | 1-137-150-11 | MYLAR 0.01MF 10% | 100V |
| C539 | 1-130-480-00 | FILM 0.0056MF 5% | 50V |
| C540 | 1-163-133-00 | CERAMIC CHIP 470PF 5% | 50V |
| C541 | 1-107-905-11 | ELECT 4.7MF 20% | 50V |
| C542 | 1-136-481-11 | MYLAR 0.0022MF 10% | 100V |
| C543 | 1-136-481-11 | MYLAR 0.0022MF 10% | 100V |
| C544 | 1-137-150-11 | MYLAR 0.01MF 10% | 100V |
| C545 | 1-102-212-00 | CERAMIC 820PF 10% | 500V |
| C546 | 1-163-119-00 | CERAMIC CHIP 120PF 5% | 50V |
| C547 | 1-163-251-11 | CERAMIC CHIP 100PF 5% | 50V |
| C548 | 1-102-212-00 | CERAMIC 820PF 10% | 500V |
| C549 | 1-107-906-11 | ELECT 10MF 20% | 50V |
| C550 | 1-107-905-11 | ELECT 4.7MF 20% | 50V |
| C551 | 1-106-375-12 | MYLAR 0.022MF 10% | 100V |
| C552 | 1-107-889-11 | ELECT 220MF 20% | 25V |
| C553 | 1-106-389-00 | MYLAR 0.082MF 10% | 200V |
| C554 | 1-130-736-11 | FILM 0.01MF 5% | (14M4U/E/A) 50V |
| C555 | 1-126-964-11 | ELECT 10MF 20% | 50V |
| C556 | 1-126-964-11 | ELECT 10MF 20% | 50V |
| C557 | 1-106-381-12 | MYLAR 0.039MF 10% | 100V |
| C558 | 1-126-960-11 | ELECT 1MF 20% | 50V |
| C559 | 1-136-173-00 | FILM 0.47MF 5% | 50V |
| C561 | 1-136-159-00 | FILM 0.033MF 5% | 50V |
| C564 | 1-126-964-11 | ELECT 10MF 20% | 50V |

| REF. NO. | PART NO. | DESCRIPTION | REMARK |
|----------|--------------|-------------------------|-----------|
| C565 | 1-126-960-11 | ELECT 1MF 20% | 50V |
| C566 | 1-137-150-11 | MYLAR 0.01MF 10% | 100V |
| C567 | 1-136-499-11 | FILM 0.047MF 5% | 50V |
| C568 | 1-126-960-11 | ELECT 1MF 20% | 50V |
| C569 | 1-131-351-00 | TANTALUM 4.7MF 10% | 25V |
| C570 | 1-126-767-11 | ELECT 1000MF 20% | 16V |
| C571 | 1-164-232-11 | CERAMIC CHIP 0.01MF 10% | 50V |
| C572 | 1-104-709-11 | ELECT 4.7MF 0 | 160V |
| C573 | 1-136-173-00 | FILM 0.47MF 5% | 50V |
| C575 | 1-163-031-11 | CERAMIC CHIP 0.01MF | 50V |
| C576 | 1-102-244-00 | CERAMIC 220PF 10% | 500V |
| C577 | 1-107-906-11 | ELECT 10MF 20% | 50V |
| C578 | 1-136-112-00 | FILM 1.4MF 5% | 200V |
| C579 | 1-107-910-11 | ELECT 100MF 20% | 50V |
| C580 | 1-136-756-11 | FILM 0.24MF 5% | 200V |
| C581 | 1-126-963-11 | ELECT 4.7MF 20% | 50V |
| C582 | 1-102-002-00 | CERAMIC 680PF 10% | 500V |
| C583 | 1-136-828-11 | FILM 1.8MF 5% | 200V |
| C584 | 1-107-949-11 | ELECT 2.2MF 20% | 160V |
| C585 | 1-107-960-11 | ELECT 4.7MF 20% | 250V |
| C586 | 1-126-942-61 | ELECT 1000MF | 25V |
| C587 | 1-102-030-00 | CERAMIC 330PF 10% | 500V |
| C588 | 1-107-906-11 | ELECT 10MF 20% | 50V |
| C589 | 1-102-030-00 | CERAMIC 330PF 10% | 500V |
| C590 | 1-107-903-11 | ELECT 2.2MF 20% | 50V |
| C591 | 1-107-365-91 | FILM 0.015MF 10% | 200V |
| C592 | 1-107-635-11 | ELECT 4.7MF 20% | 160V |
| C593 | 1-165-319-11 | CERAMIC CHIP 0.1MF | 50V |
| C594 | 1-163-229-11 | CERAMIC CHIP 12PF 5% | 50V |
| C595 | 1-107-889-11 | ELECT 220MF 20% | 50V |
| C596 | 1-104-665-11 | ELECT 100MF 20% | 25V |
| C597 | 1-164-346-11 | CERAMIC CHIP 1MF | 16V |
| C598 | 1-164-346-11 | CERAMIC CHIP 1MF | 16V |
| C599 | 1-124-261-00 | ELECT 10MF | 50V |
| C1300 | 1-104-664-11 | ELECT 47MF | 20% |
| C1301 | 1-104-664-11 | ELECT 47MF | 20% |
| C1302 | 1-163-133-00 | CERAMIC CHIP 470PF | 5% |
| C1304 | 1-104-664-11 | ELECT 47MF | 20% |
| C1305 | 1-104-664-11 | ELECT 47MF | 20% |
| C1306 | 1-163-031-11 | CERAMIC CHIP 0.01MF | 50V |
| C1307 | 1-163-031-11 | CERAMIC CHIP 0.01MF | 50V |
| C1308 | 1-126-933-11 | ELECT 100MF | 20% |
| C1309 | 1-163-257-11 | CERAMIC CHIP 180PF | 5% |
| C1310 | 1-163-031-11 | CERAMIC CHIP 0.01MF | 50V |
| C1311 | 1-104-664-11 | ELECT 47MF | 20% |
| C1312 | 1-163-031-11 | CERAMIC CHIP 0.01MF | 50V |
| C1313 | 1-163-031-11 | CERAMIC CHIP 0.01MF | 50V |
| C1314 | 1-104-664-11 | ELECT 47MF | 20% |
| C1315 | 1-104-664-11 | ELECT 47MF | 20% |
| C1316 | 1-163-031-11 | CERAMIC CHIP 0.01MF | 50V |
| C1317 | 1-104-664-11 | ELECT 47MF | 20% |
| C1318 | 1-104-664-11 | ELECT 47MF | 20% |
| C1319 | 1-163-037-11 | CERAMIC CHIP 0.022MF | 10% |
| C1320 | 1-104-664-11 | ELECT 47MF | 20% |
| C1321 | 1-104-664-11 | ELECT 47MF | 20% |
| C1322 | 1-126-934-11 | ELECT 220MF | 20% |
| C1323 | 1-163-031-11 | CERAMIC CHIP 0.01MF | 50V |
| C1324 | 1-163-031-11 | CERAMIC CHIP 0.01MF | 50V |
| C1325 | 1-163-031-11 | CERAMIC CHIP 0.01MF | 50V |
| C1326 | 1-104-664-11 | ELECT 47MF | 20% |
| C1327 | 1-163-031-11 | CERAMIC CHIP 0.01MF | 50V |
| C1328 | 1-163-031-11 | CERAMIC CHIP 0.01MF | 50V |
| C1329 | 1-126-964-11 | ELECT 10MF | 20% |
| C1330 | 1-163-031-11 | CERAMIC CHIP 0.01MF | 50V |
| C1331 | 1-104-664-11 | ELECT 47MF | 20% |
| C1332 | 1-104-664-11 | ELECT 47MF | 20% |
| C1333 | 1-104-664-11 | ELECT 47MF | 20% |
| C1334 | 1-163-227-11 | CERAMIC CHIP 10PF | 0.5PF 50V |



| REF. NO. | PART NO. | DESCRIPTION | REMARK |
|----------|--------------|-----------------------|------------|
| C1335 | 1-104-664-11 | ELECT 47MF | 20% 25V |
| C1336 | 1-104-664-11 | ELECT 47MF | 20% 25V |
| C1338 | 1-163-031-11 | CERAMIC CHIP 0.01MF | 50V |
| C1339 | 1-163-031-11 | CERAMIC CHIP 0.01MF | 50V |
| C1340 | 1-163-031-11 | CERAMIC CHIP 0.01MF | 50V |
| C1341 | 1-163-275-11 | CERAMIC CHIP 0.001MF | 5% 50V |
| C1342 | 1-163-105-00 | CERAMIC CHIP 33PF | 5% 50V |
| C1343 | 1-163-113-00 | CERAMIC CHIP 68PF | 5% 50V |
| C1344 | 1-163-083-00 | CERAMIC CHIP 1PF | 0.25PF 50V |
| C1345 | 1-124-261-00 | ELECT 10MF | 20% 50V |
| C1346 | 1-124-589-11 | ELECT 47MF | 20% 16V |
| C1347 | 1-163-031-11 | CERAMIC CHIP 0.01MF | 50V |
| C1348 | 1-163-127-00 | CERAMIC CHIP 270PF | 5% 50V |
| C1349 | 1-163-117-00 | CERAMIC CHIP 100PF | 5% 50V |
| C1350 | 1-164-232-11 | CERAMIC CHIP 0.01MF | 10% 50V |
| C1351 | 1-126-960-11 | ELECT 1MF | 20% 50V |
| C1352 | 1-163-023-00 | CERAMIC CHIP 0.015MF | 10% 50V |
| C1353 | 1-163-031-11 | CERAMIC CHIP 0.01MF | 50V |
| C1354 | 1-163-121-00 | CERAMIC CHIP 150PF | 5% 50V |
| C1355 | 1-163-259-91 | CERAMIC CHIP 220PF | 5% 50V |
| C1356 | 1-163-235-11 | CERAMIC CHIP 22PF | 5% 50V |
| C1357 | 1-104-661-91 | ELECT 330MF | 20% 16V |
| C1358 | 1-124-589-11 | ELECT 47MF | 20% 16V |
| C1359 | 1-163-263-11 | CERAMIC CHIP 330PF | 5% 50V |
| C1360 | 1-164-161-11 | CERAMIC CHIP 0.0022MF | 10% 50V |
| C1362 | 1-163-249-11 | CERAMIC CHIP 82PF | 5% 50V |
| C1363 | 1-163-235-11 | CERAMIC CHIP 22PF | 5% 50V |
| C1364 | 1-163-133-00 | CERAMIC CHIP 470PF | 5% 50V |
| C1365 | 1-163-227-11 | CERAMIC CHIP 10PF | 0.5PF 50V |
| C1366 | 1-104-664-11 | ELECT 47MF | 20% 25V |
| C1367 | 1-104-664-11 | ELECT 47MF | 20% 25V |
| C1369 | 1-163-237-11 | CERAMIC CHIP 27PF | 5% 50V |
| C1370 | 1-163-237-11 | CERAMIC CHIP 27PF | 5% 50V |
| C1372 | 1-104-664-11 | ELECT 47MF | 20% 25V |
| C1373 | 1-104-664-11 | ELECT 47MF | 20% 25V |
| C1374 | 1-104-664-11 | ELECT 47MF | 20% 25V |
| C1375 | 1-126-963-11 | ELECT 4.7MF | 20% 50V |
| C1378 | 1-163-231-11 | CERAMIC CHIP 15PF | 5% 50V |
| C1380 | 1-163-163-00 | CERAMIC CHIP 18PF | 5% 50V |
| C1381 | 1-163-163-00 | CERAMIC CHIP 18PF | 5% 50V |
| C1382 | 1-126-933-11 | ELECT 100MF | 20% 10V |
| C1383 | 1-104-664-11 | ELECT 47MF | 20% 25V |
| C1384 | 1-163-038-91 | CERAMIC CHIP 0.1MF | 25V |
| C1385 | 1-163-031-11 | CERAMIC CHIP 0.01MF | 50V |
| C1386 | 1-163-031-11 | CERAMIC CHIP 0.01MF | 50V |
| C1387 | 1-163-031-11 | CERAMIC CHIP 0.01MF | 50V |
| C1388 | 1-163-229-11 | CERAMIC CHIP 12PF | 5% 50V |
| C1393 | 1-163-251-11 | CERAMIC CHIP 100PF | 5% 50V |
| C1400 | 1-163-031-11 | CERAMIC CHIP 0.01MF | 50V |
| C1401 | 1-136-173-00 | FILM 0.47MF | 5% 50V |
| C1402 | 1-163-031-11 | CERAMIC CHIP 0.01MF | 50V |
| C1403 | 1-136-173-00 | FILM 0.47MF | 5% 50V |
| C1404 | 1-164-299-11 | CERAMIC CHIP 0.22MF | 10% 25V |
| C1405 | 1-163-235-11 | CERAMIC CHIP 22PF | 5% 50V |
| C1406 | 1-163-090-00 | CERAMIC CHIP 7PF | 0.25PF 50V |
| C1407 | 1-163-085-00 | CERAMIC CHIP 2PF | 0.25PF 50V |
| C1408 | 1-163-113-00 | CERAMIC CHIP 68PF | 5% 50V |
| C1500 | 1-126-768-11 | ELECT 2200MF | 20% 16V |
| C1501 | 1-126-925-11 | ELECT 470MF | 20% 10V |
| C1505 | 1-136-165-00 | FILM 0.1MF | 5% 50V |
| C1506 | 1-104-661-91 | ELECT 330MF | 20% 16V |
| C1507 | 1-163-141-00 | CERAMIC CHIP 0.001MF | 5% 50V |
| C1508 | 1-126-963-11 | ELECT 4.7MF | 20% 50V |
| C1509 | 1-126-964-11 | ELECT 10MF | 20% 50V |
| C1510 | 1-126-963-11 | ELECT 4.7MF | 20% 50V |
| C1511 | 1-164-182-11 | CERAMIC CHIP 0.0033MF | 10% 50V |
| C1512 | 1-126-963-11 | ELECT 4.7MF | 20% 50V |
| C1513 | 1-163-197-00 | CERAMIC CHIP 470PF | 5% 50V |
| C1514 | 1-130-477-00 | MYLAR 0.0033MF | 5% 50V |

| REF. NO. | PART NO. | DESCRIPTION | REMARK |
|----------|--------------|----------------------|-------------------------|
| C1515 | 1-126-964-11 | ELECT 10MF | 20% 50V |
| C1516 | 1-163-063-91 | CERAMIC CHIP 0.022MF | 10% 50V |
| C1517 | 1-128-526-11 | ELECT 100MF | 20% 10V |
| C1518 | 1-107-909-11 | ELECT 47MF | 20% 16V |
| C1520 | 1-162-129-00 | CERAMIC 150PF | 10% 2KV (14M4U/E/A) |
| C1521 | 1-163-243-11 | CERAMIC CHIP 47PF | 5% 50V |
| C1524 | 1-107-910-11 | ELECT 100MF | 20% 50V (14M4U/E/A) |
| C1525 | 1-162-114-00 | CERAMIC 0.0047MF | 2KV (14M4U/E/A) |
| C1530 | 1-163-031-11 | CERAMIC CHIP 0.01MF | 50V |
| C1537 | 1-130-783-00 | MYLAR 0.33MF | 10% 100V (14M4U/E/A) |
| C1538 | 1-102-074-00 | CERAMIC 0.001MF | 10% 50V |
| C2501 | 1-164-232-11 | CERAMIC CHIP 0.01MF | 10% 50V |
| C2502 | 1-164-232-11 | CERAMIC CHIP 0.01MF | 10% 50V |
| C2510 | 1-136-553-11 | FILM 0.0015MF | 5% 630V (14M2U/E/A) |

<CONNECTOR>

| | | |
|-------|---------------|---|
| CN101 | *1-573-979-11 | CONNECTOR, BOARD TO BOARD 11P |
| CN102 | *1-564-514-11 | PLUG, CONNECTOR 11P |
| CN104 | *1-564-506-11 | PLUG, CONNECTOR 3P |
| CN105 | *1-565-503-11 | CONNECTOR, BOARD TO BOARD 12P |
| CN201 | *1-564-506-11 | PLUG, CONNECTOR 3P |
| CN301 | *1-564-514-11 | PLUG, CONNECTOR 11P |
| CN302 | *1-564-510-11 | PLUG, CONNECTOR 7P |
| CN303 | *1-766-745-11 | CONNECTOR, BOARD TO BOARD 12P |
| CN305 | 1-779-070-21 | PIN, CONNECTOR 12P |
| CN401 | *1-564-511-11 | PLUG, CONNECTOR 8P |
| CN402 | *1-564-515-11 | PLUG, CONNECTOR 12P |
| CN501 | *1-580-798-11 | CONNECTOR PIN (DY) 6P |
| CN502 | *1-573-964-11 | PIN, CONNECTOR (PC BOARD) 6P |
| CN503 | *1-573-964-11 | PIN, CONNECTOR (PC BOARD) 6P |
| CN504 | *1-564-506-11 | PLUG, CONNECTOR 3P |
| CN505 | *1-564-506-11 | PLUG, CONNECTOR 3P |
| CN507 | 1-695-915-11 | TAB (CONTACT) |
| CN508 | 1-766-240-11 | PIN, CONNECTOR (PC BOARD) 2P (14M4U/E/A) |

<COMPOSITION CIRCUIT BLOCK>

| | | |
|-------|--------------|---------------------------|
| CP300 | 1-236-366-11 | MODULE, TRAP |
| CP301 | 1-236-365-11 | MODULE, TRAP |
| CP302 | 1-808-654-21 | MODULE |
| CP303 | 1-466-162-61 | FILTER BLOCK, COM (CFB-4) |

<DIODE>

| | | |
|------|--------------|-------------------|
| D100 | 8-719-404-49 | DIODE MA111 |
| D101 | 8-719-800-76 | DIODE 1SS226 |
| D102 | 8-719-800-76 | DIODE 1SS226 |
| D103 | 8-719-045-70 | DIODE 1SV230TPH3 |
| D104 | 8-719-800-76 | DIODE 1SS226 |
| D105 | 8-719-800-76 | DIODE 1SS226 |
| D107 | 8-719-800-76 | DIODE 1SS226 |
| D108 | 8-719-104-34 | DIODE 1S2836 |
| D109 | 8-719-801-78 | DIODE 1SS184 |
| D111 | 8-719-977-05 | DIODE DTZ6.2 |
| D114 | 8-719-404-49 | DIODE MA111 |
| D115 | 8-719-977-05 | DIODE DTZ6.2 |
| D116 | 8-719-404-49 | DIODE MA111 |
| D200 | 8-719-977-46 | DIODE DTZ13C |
| D300 | 8-719-025-07 | DIODE 1SV232-TPH3 |
| D301 | 8-719-404-49 | DIODE MA111 |
| D303 | 8-719-977-05 | DIODE DTZ6.2 |
| D304 | 8-719-801-78 | DIODE 1SS184 |
| D305 | 8-719-800-76 | DIODE 1SS226 |

| REF. NO. | PART NO. | DESCRIPTION | REMARK | REF. NO. | PART NO. | DESCRIPTION | REMARK |
|----------|--------------|-----------------------|--------|----------|--------------|------------------------------|--------|
| D307 | 8-719-404-49 | DIODE MA111 | | D516 | 8-719-404-49 | DIODE MA111 | |
| D308 | 8-719-404-49 | DIODE MA111 | | D517 | 8-719-404-49 | DIODE MA111 | |
| D309 | 8-719-404-49 | DIODE MA111 | | D518 | 8-719-404-49 | DIODE MA111 | |
| D310 | 8-719-104-34 | DIODE 1S2836 | | D519 | 8-719-404-49 | DIODE MA111 | |
| D311 | 8-719-045-70 | DIODE 1SV230TPH3 | | D520 | 8-719-801-78 | DIODE 1SS184 | |
| D313 | 8-719-801-78 | DIODE 1SS184 | | D521 | 8-719-404-49 | DIODE MA111 | |
| D314 | 8-719-404-49 | DIODE MA111 | | D522 | 8-719-977-05 | DIODE DTZ6.2 | |
| D315 | 8-719-404-49 | DIODE MA111 | | D523 | 8-719-920-76 | DIODE 1S2076 | |
| D317 | 8-719-404-49 | DIODE MA111 | | D524 | 8-719-200-02 | DIODE 10E-2 | |
| D320 | 8-719-404-49 | DIODE MA111 | | D525 | 8-719-200-02 | DIODE 10E-2 | |
| D322 | 8-719-404-49 | DIODE MA111 | | D526 | 8-719-404-49 | DIODE MA111 | |
| D323 | 8-719-404-49 | DIODE MA111 | | D527 | 8-719-200-02 | DIODE 10E-2 | |
| D324 | 8-719-045-70 | DIODE 1SV230TPH3 | | D528 | 8-719-300-76 | DIODE RH-1A | |
| D325 | 8-719-801-78 | DIODE 1SS184 | | D529 | 8-719-200-02 | DIODE 10E-2 | |
| D326 | 8-719-045-70 | DIODE 1SV230TPH3 | | D530 | 8-719-300-76 | DIODE RH-1A | |
| D327 | 8-719-104-34 | DIODE 1S2836 | | D531 | 8-719-977-32 | DIODE DTZ11B | |
| D332 | 8-719-404-49 | DIODE MA111 | | D532 | 8-719-800-76 | DIODE 1SS226 | |
| D333 | 8-719-404-49 | DIODE MA111 | | D533 | 8-719-302-43 | DIODE EL1Z | |
| D335 | 8-719-404-49 | DIODE MA111 | | D534 | 8-719-404-49 | DIODE MA111 | |
| D336 | 8-719-404-49 | DIODE MA111 | | D535 | 8-719-404-49 | DIODE MA111 | |
| D337 | 8-719-404-49 | DIODE MA111 | | D536 | 8-719-800-76 | DIODE 1SS226 | |
| D338 | 8-719-404-49 | DIODE MA111 | | D537 | 8-719-800-76 | DIODE 1SS226 | |
| D339 | 8-719-404-49 | DIODE MA111 | | D538 | 8-719-800-76 | DIODE 1SS226 | |
| D344 | 8-719-801-78 | DIODE 1SS184 | | D539 | 8-719-920-76 | DIODE 1S2076 | |
| D345 | 8-719-104-34 | DIODE 1S2836 | | D540 | 8-719-404-49 | DIODE MA111 | |
| D346 | 8-719-104-34 | DIODE 1S2836 | | D541 | 8-719-801-78 | DIODE 1SS184 | |
| D347 | 8-719-104-34 | DIODE 1S2836 | | D542 | 8-719-404-49 | DIODE MA111 | |
| D360 | 1-216-295-91 | CONDUCTOR, CHIP | | D543 | 8-719-404-49 | DIODE MA111 | |
| D361 | 1-216-295-91 | CONDUCTOR, CHIP | | D544 | 8-719-404-49 | DIODE MA111 (14M4U/E/A) | |
| D362 | 8-719-158-40 | DIODE RD10SB1 | | D545 | 8-719-404-49 | DIODE MA111 (14M4U/E/A) | |
| D363 | 8-719-158-40 | DIODE RD10SB1 | | D546 | 8-719-901-19 | DIODE V11N (14M4U/E/A) | |
| D364 | 8-719-104-34 | DIODE 1S2836 | | D547 | 8-719-404-49 | DIODE MA111 | |
| D365 | 8-719-404-49 | DIODE MA111 | | D548 | 8-719-110-46 | DIODE RD16ESB3 (14M4U/E/A) | |
| D381 | 8-719-404-49 | DIODE MA111 | | | | <DELAY LINE> | |
| D401 | 8-719-404-49 | DIODE MA111 | | DL300 | 1-415-633-11 | DELAY LINE, Y | |
| D404 | 8-719-800-76 | DIODE 1SS226 | | DL301 | 1-415-632-11 | DELAY LINE, Y | |
| D405 | 8-719-801-78 | DIODE 1SS184 | | DL401 | 1-409-547-11 | DELAY LINE | |
| D406 | 8-719-404-49 | DIODE MA111 | | | | <FERRITE BEAD> | |
| D407 | 8-719-404-49 | DIODE MA111 | | FB501 | 1-410-396-41 | FERRITE BEAD INDUCTOR 0.45UH | |
| D408 | 8-719-404-49 | DIODE MA111 | | | | <FILTER> | |
| D410 | 8-719-404-49 | DIODE MA111 | | FL300 | 1-236-547-11 | TRAP, LC | |
| D411 | 8-719-404-49 | DIODE MA111 | | FL401 | 1-236-364-11 | FILTER, BAND PASS | |
| D414 | 8-719-801-78 | DIODE 1SS184 | | | | <IC> | |
| D415 | 8-719-801-78 | DIODE 1SS184 | | IC101 | 1-540-044-11 | SOCKET, IC | |
| D416 | 8-719-801-78 | DIODE 1SS184 | | IC101 | 8-759-462-05 | IC uPD78P018FYCW-M01 | |
| D417 | 8-719-801-78 | DIODE 1SS184 | | IC102 | 8-759-354-28 | IC ST24C02FM6TR | |
| D418 | 8-719-801-78 | DIODE 1SS184 | | IC103 | 8-759-008-48 | IC MC74HC86F | |
| D421 | 8-719-404-49 | DIODE MA111 | | IC104 | 8-759-262-59 | IC uPD6451AGT-632-E2 | |
| D422 | 8-719-404-49 | DIODE MA111 | | IC105 | 8-759-196-70 | IC M62358FP-E1 | |
| D423 | 8-719-800-76 | DIODE 1SS226 | | IC106 | 8-759-196-70 | IC M62358FP-E1 | |
| D424 | 8-719-404-49 | DIODE MA111 | | IC107 | 8-759-196-70 | IC M62358FP-E1 | |
| D425 | 8-719-800-76 | DIODE 1SS226 | | IC108 | 8-759-042-02 | IC S-80743AL-A7-S | |
| D427 | 8-719-404-49 | DIODE MA111 | | IC109 | 8-759-196-70 | IC M62358FP-E1 | |
| D500 | 8-719-404-49 | DIODE MA111 | | IC110 | 8-759-196-70 | IC M62358FP-E1 | |
| D501 | 8-719-977-03 | DIODE DTZ5.6B | | IC111 | 8-759-009-22 | IC MC14094BF | |
| D502 | 8-719-979-80 | DIODE UF5406 | | IC112 | 8-759-354-27 | IC ST24C01FM6TR | |
| D503 | 8-719-404-49 | DIODE MA111 | | IC200 | 8-759-420-04 | IC AN5265 | |
| D504 | 8-719-901-83 | DIODE 1SS83 | | IC301 | 8-752-053-21 | IC CXA1211M | |
| D505 | 8-719-028-72 | DIODE RGP02-17EL-6433 | | IC302 | 8-759-998-98 | IC LM358D | |
| D506 | 8-719-033-83 | DIODE ERD07-15 | | IC303 | 8-752-056-67 | IC CXA1214P | |
| D507 | 8-719-800-76 | DIODE 1SS226 | | IC304 | 8-759-932-67 | IC BU4051BCF | |
| D508 | 8-719-800-76 | DIODE 1SS226 | | | | | |
| D509 | 8-719-404-49 | DIODE MA111 | | | | | |
| D510 | 8-719-302-43 | DIODE EL1Z | | | | | |
| D512 | 8-719-979-80 | DIODE UF5406 | | | | | |
| D513 | 8-719-404-49 | DIODE MA111 | | | | | |
| D514 | 8-719-971-20 | DIODE ERC38-06 | | | | | |
| D515 | 8-719-971-20 | DIODE ERC38-06 | | | | | |



Les composants identifiés par
une trame et une marque Δ
sont critiques pour la sécurité.
Ne les remplacer que par une
pièce portant le numéro spécifié.

The components identified by
shading and mark Δ are critical
for safety.
Replace only with part number
specified.

| REF. NO. | PART NO. | DESCRIPTION | REMARK | REF. NO. | PART NO. | DESCRIPTION | REMARK |
|----------|--------------|---------------------|--------|----------|-----------------------|--------------------------------|--------|
| IC306 | 8-759-711-32 | IC NJM2245M | | L314 | 1-412-011-31 | INDUCTOR CHIP 27UH | |
| IC309 | 8-759-711-32 | IC NJM2245M | | L316 | 1-412-011-31 | INDUCTOR CHIP 27UH | |
| IC310 | 8-759-932-67 | IC BU4053BCF | | L317 | 1-410-090-41 | INDUCTOR 18mH | |
| IC311 | 8-759-008-67 | IC MC14066BF | | L319 | 1-408-421-00 | INDUCTOR 100UH | |
| IC312 | 8-759-711-32 | IC NJM2245M | | L320 | 1-410-682-31 | INDUCTOR 470UH | |
| IC313 | 8-759-287-89 | IC MM1113XFF | | L401 | 1-410-478-11 | INDUCTOR 47UH | |
| IC314 | 8-759-287-89 | IC MM1113XFF | | L402 | 1-410-216-31 | INDUCTOR CHIP 100UH | |
| IC315 | 8-759-932-67 | IC BU4053BCF | | L403 | 1-410-216-31 | INDUCTOR CHIP 100UH | |
| IC316 | 8-759-084-76 | IC MM1111XF | | L404 | 1-410-216-31 | INDUCTOR CHIP 100UH | |
| IC317 | 8-759-009-51 | IC MC14538BF | | L405 | 1-408-419-00 | INDUCTOR 68UH | |
| IC318 | 8-759-009-67 | IC MC14584BF | | L406 | 1-408-419-00 | INDUCTOR 68UH | |
| IC320 | 8-759-287-89 | IC MM1113XFF | | L407 | 1-408-413-00 | INDUCTOR 22UH | |
| IC321 | 8-759-287-89 | IC MM1113XFF | | L408 | 1-408-413-00 | INDUCTOR 22UH | |
| IC322 | 8-759-287-89 | IC MM1113XFF | | L409 | 1-410-214-31 | INDUCTOR CHIP 68UH | |
| IC323 | 8-759-287-89 | IC MM1113XFF | | L500 | 1-459-155-00 | COIL (WITH CORE) 45UH | |
| IC324 | 8-759-287-89 | IC MM1113XFF | | L501 | 1-407-365-00 | COIL,CHOKE | |
| IC325 | 8-759-287-89 | IC MM1113XFF | | L502 | 1-407-365-00 | COIL,CHOKE | |
| IC326 | 8-759-060-00 | IC BA10324AF | | L503 | 1-410-093-11 | INDUCTOR 33mH | |
| IC327 | 8-759-008-67 | IC MC14066BF | | L504 | 1-410-666-31 | INDUCTOR 18UH | |
| IC350 | 8-759-100-96 | IC uPC4558G2 | | L505 | 1-410-671-31 | INDUCTOR 47UH | |
| IC401 | 8-759-196-69 | IC BA7655AF-E2 | | L506 | 1-416-239-11 | COIL, CHOKE 3.00mH (14M4U/E/A) | |
| IC402 | 8-752-053-21 | IC CXA1211M | | L507 | 1-410-686-11 | INDUCTOR 1mH | |
| IC403 | 8-759-008-67 | IC MC14066BF | | L508 | 1-412-530-31 | INDUCTOR 27UH | |
| IC404 | 8-752-067-05 | IC CXA1739S | | L509 | 1-459-075-11 | COIL,DYNAMIC CONVERSION CHOKE | |
| IC405 | 8-759-932-67 | IC BU4053BCF | | L511 | 1-459-105-21 | COIL(WITH CORE) | |
| IC406 | 8-759-998-98 | IC LM358D | | L512 | Δ 1-459-155-11 | COIL (WITH CORE) 45UH | |
| IC407 | 8-759-008-67 | IC MC14066BF | | L513 | 1-412-447-11 | INDUCTOR 3.9mH | |
| IC408 | 8-759-509-91 | IC XRA10393F | | L514 | 1-459-104-00 | COIL, DUST CORE | |
| IC409 | 8-759-060-00 | IC BA10324AF | | L515 | 1-459-059-00 | COIL,DUST CORE | |
| IC410 | 8-759-009-06 | IC MC14052BF | | L516 | 1-416-162-11 | COIL, HORIZONTAL LINEARITY | |
| IC411 | 8-759-008-92 | IC MC14024BF | | L517 | 1-412-547-21 | INDUCTOR 680UH | |
| IC412 | 8-759-932-67 | IC BU4053BCF | | | | <NEON LAMP> | |
| IC413 | 8-759-932-67 | IC BU4053BCF | | NL500 | 1-519-526-11 | LAMP, NEON | |
| IC500 | 8-749-010-07 | IC H8D7248 | | | | <TRANSISTOR> | |
| IC502 | 8-759-009-51 | IC MC14538BF | | Q101 | 8-729-027-59 | TRANSISTOR DTC144EKA-T146 | |
| IC503 | 8-759-009-51 | IC MC14538BF | | Q102 | 8-729-216-22 | TRANSISTOR 2SA1162-G | |
| IC504 | 8-752-053-21 | IC CXA1211M | | Q103 | 8-729-216-22 | TRANSISTOR 2SA1162-G | |
| IC505 | 8-759-520-07 | IC XRA17812T | | Q104 | 8-729-907-26 | TRANSISTOR IMX1 | |
| IC506 | 8-759-009-51 | IC MC14538BF | | Q105 | 8-729-027-38 | TRANSISTOR DTA144EKA-T146 | |
| IC507 | 8-759-100-60 | IC uPC1377C | | Q107 | 8-729-027-38 | TRANSISTOR DTA144EKA-T146 | |
| IC508 | 8-752-053-21 | IC CXA1211M | | Q108 | 8-729-422-29 | TRANSISTOR 2SD601A-S | |
| IC509 | 8-759-998-98 | IC LM358D | | Q109 | 8-729-422-29 | TRANSISTOR 2SD601A-S | |
| IC510 | 8-759-009-51 | IC MC14538BF | | Q110 | 8-729-422-29 | TRANSISTOR 2SD601A-S | |
| | | <CHIP CONDUCTOR> | | Q111 | 8-729-027-38 | TRANSISTOR DTA144EKA-T146 | |
| JR302 | 1-216-295-91 | CONDUCTOR, CHIP | | Q112 | 8-729-422-29 | TRANSISTOR 2SD601A-S | |
| JR307 | 1-216-295-91 | CONDUCTOR, CHIP | | Q113 | 8-729-422-29 | TRANSISTOR 2SD601A-S | |
| JR310 | 1-216-295-91 | CONDUCTOR, CHIP | | Q114 | 8-729-422-29 | TRANSISTOR 2SD601A-S | |
| | | <COIL> | | Q200 | 8-729-140-96 | TRANSISTOR 2SD774-34 | |
| L101 | 1-408-609-41 | INDUCTOR 33UH | | Q201 | 8-729-422-29 | TRANSISTOR 2SD601A-S | |
| L102 | 1-408-417-00 | INDUCTOR 47UH | | Q300 | 8-729-422-29 | TRANSISTOR 2SD601A-S | |
| L104 | 1-408-425-00 | INDUCTOR 220UH | | Q301 | 8-729-422-29 | TRANSISTOR 2SD601A-S | |
| L105 | 1-410-482-31 | INDUCTOR 100UH | | Q302 | 8-729-216-22 | TRANSISTOR 2SA1162-G | |
| L300 | 1-410-478-11 | INDUCTOR 47UH | | Q303 | 8-729-422-29 | TRANSISTOR 2SD601A-S | |
| L301 | 1-408-411-00 | INDUCTOR 15UH | | Q305 | 8-729-422-29 | TRANSISTOR 2SD601A-S | |
| L302 | 1-412-008-31 | INDUCTOR CHIP 15UH | | Q306 | 8-729-422-29 | TRANSISTOR 2SD601A-S | |
| L303 | 1-408-416-00 | INDUCTOR 39UH | | Q307 | 8-729-422-29 | TRANSISTOR 2SD601A-S | |
| L304 | 1-412-008-31 | INDUCTOR CHIP 15UH | | Q308 | 8-729-422-29 | TRANSISTOR 2SD601A-S | |
| L305 | 1-410-196-11 | INDUCTOR CHIP 2.2UH | | Q309 | 8-729-422-37 | TRANSISTOR 2SB709A-R | |
| L306 | 1-408-416-00 | INDUCTOR 39UH | | Q310 | 8-729-422-37 | TRANSISTOR 2SB709A-R | |
| L307 | 1-408-411-00 | INDUCTOR 15UH | | Q311 | 8-729-422-37 | TRANSISTOR 2SB709A-R | |
| L308 | 1-410-466-41 | INDUCTOR 4.7UH | | Q312 | 8-729-422-29 | TRANSISTOR 2SD601A-S | |
| L309 | 1-410-470-11 | INDUCTOR 10UH | | Q313 | 8-729-422-37 | TRANSISTOR 2SB709A-R | |
| L311 | 1-410-470-11 | INDUCTOR 10UH | | Q314 | 8-729-027-38 | TRANSISTOR DTA144EKA-T146 | |
| L312 | 1-412-011-31 | INDUCTOR CHIP 27UH | | Q315 | 8-729-422-37 | TRANSISTOR 2SB709A-R | |



<RESISTOR>



| REF. NO. | PART NO. | DESCRIPTION | REMARK | REF. NO. | PART NO. | DESCRIPTION | REMARK |
|----------|--------------|------------------|-------------|----------|--------------|------------------|-------------|
| R108 | 1-216-065-00 | METAL GLAZE 4.7K | 5% 1/10W | R315 | 1-216-099-00 | METAL GLAZE 120K | 5% 1/10W |
| R109 | 1-216-065-00 | METAL GLAZE 4.7K | 5% 1/10W | R316 | 1-216-049-91 | METAL GLAZE 1K | 5% 1/10W |
| R110 | 1-216-073-00 | METAL GLAZE 10K | 5% 1/10W | R317 | 1-216-057-00 | METAL GLAZE 2.2K | 5% 1/10W |
| R113 | 1-216-085-00 | METAL GLAZE 33K | 5% 1/10W | R318 | 1-216-049-91 | METAL GLAZE 1K | 5% 1/10W |
| R117 | 1-216-073-00 | METAL GLAZE 10K | 5% 1/10W | R319 | 1-216-067-00 | METAL GLAZE 5.6K | 5% 1/10W |
| R119 | 1-216-073-00 | METAL GLAZE 10K | 5% 1/10W | R320 | 1-216-057-00 | METAL GLAZE 2.2K | 5% 1/10W |
| R124 | 1-216-295-91 | CONDUCTOR, CHIP | | R321 | 1-216-051-00 | METAL GLAZE 1.2K | 5% 1/10W |
| R130 | 1-216-099-00 | METAL GLAZE 120K | 5% 1/10W | R322 | 1-216-035-00 | METAL GLAZE 270 | 5% 1/10W |
| R132 | 1-216-065-00 | METAL GLAZE 4.7K | 5% 1/10W | R323 | 1-216-109-00 | METAL GLAZE 330K | 5% 1/10W |
| R133 | 1-216-091-00 | METAL GLAZE 56K | 5% 1/10W | R324 | 1-216-101-00 | METAL GLAZE 150K | 5% 1/10W |
| R134 | 1-216-065-00 | METAL GLAZE 4.7K | 5% 1/10W | R325 | 1-216-037-00 | METAL GLAZE 330 | 5% 1/10W |
| R135 | 1-216-085-00 | METAL GLAZE 33K | 5% 1/10W | R326 | 1-216-033-00 | METAL GLAZE 220 | 5% 1/10W |
| R137 | 1-216-065-00 | METAL GLAZE 4.7K | 5% 1/10W | R328 | 1-216-121-91 | METAL GLAZE 1M | 5% 1/10W |
| R140 | 1-216-033-00 | METAL GLAZE 220 | 5% 1/10W | R329 | 1-216-055-00 | METAL GLAZE 1.8K | 5% 1/10W |
| R141 | 1-216-085-00 | METAL GLAZE 33K | 5% 1/10W | R330 | 1-216-089-91 | METAL GLAZE 47K | 5% 1/10W |
| R144 | 1-216-295-91 | CONDUCTOR, CHIP | | R331 | 1-216-093-00 | METAL GLAZE 68K | 5% 1/10W |
| R149 | 1-216-065-00 | METAL GLAZE 4.7K | 5% 1/10W | R332 | 1-216-097-91 | METAL GLAZE 100K | 5% 1/10W |
| R151 | 1-216-061-00 | METAL GLAZE 3.3K | 5% 1/10W | R333 | 1-216-097-91 | METAL GLAZE 100K | 5% 1/10W |
| R154 | 1-216-065-00 | METAL GLAZE 4.7K | 5% 1/10W | R334 | 1-216-093-00 | METAL GLAZE 68K | 5% 1/10W |
| R155 | 1-216-083-00 | METAL GLAZE 27K | 5% 1/10W | R335 | 1-216-083-00 | METAL GLAZE 27K | 5% 1/10W |
| R157 | 1-216-065-00 | METAL GLAZE 4.7K | 5% 1/10W | R336 | 1-216-065-00 | METAL GLAZE 4.7K | 5% 1/10W |
| R158 | 1-216-295-91 | CONDUCTOR, CHIP | | R337 | 1-216-073-00 | METAL GLAZE 10K | 5% 1/10W |
| R159 | 1-216-063-91 | METAL GLAZE 3.9K | 5% 1/10W | R338 | 1-216-091-00 | METAL GLAZE 56K | 5% 1/10W |
| R160 | 1-216-061-00 | METAL GLAZE 3.3K | 5% 1/10W | R339 | 1-216-071-00 | METAL GLAZE 8.2K | 5% 1/10W |
| R162 | 1-216-065-00 | METAL GLAZE 4.7K | 5% 1/10W | R340 | 1-216-089-91 | METAL GLAZE 47K | 5% 1/10W |
| R163 | 1-216-065-00 | METAL GLAZE 4.7K | 5% 1/10W | R341 | 1-216-673-11 | METAL CHIP 8.2K | 0.50% 1/10W |
| R164 | 1-216-067-00 | METAL GLAZE 5.6K | 5% 1/10W | R342 | 1-216-065-00 | METAL GLAZE 4.7K | 5% 1/10W |
| R165 | 1-216-295-91 | CONDUCTOR, CHIP | | R343 | 1-216-095-00 | METAL GLAZE 82K | 5% 1/10W |
| R167 | 1-216-061-00 | METAL GLAZE 3.3K | 5% 1/10W | R344 | 1-216-099-00 | METAL GLAZE 120K | 5% 1/10W |
| R168 | 1-216-085-00 | METAL GLAZE 33K | 5% 1/10W | R345 | 1-216-063-91 | METAL GLAZE 3.9K | 5% 1/10W |
| R169 | 1-216-107-00 | METAL GLAZE 270K | 5% 1/10W | R346 | 1-216-057-00 | METAL GLAZE 2.2K | 5% 1/10W |
| R171 | 1-216-031-00 | METAL GLAZE 180 | 5% 1/10W | R347 | 1-216-065-00 | METAL GLAZE 4.7K | 5% 1/10W |
| R172 | 1-216-295-91 | CONDUCTOR, CHIP | | R348 | 1-216-031-00 | METAL GLAZE 180 | 5% 1/10W |
| R177 | 1-216-214-00 | METAL GLAZE 4.7K | 5% 1/8W | R349 | 1-216-694-11 | METAL CHIP 62K | 0.50% 1/10W |
| R181 | 1-216-065-00 | METAL GLAZE 4.7K | 5% 1/10W | R350 | 1-216-085-00 | METAL GLAZE 33K | 5% 1/10W |
| R184 | 1-216-649-11 | METAL CHIP 820 | 0.50% 1/10W | R351 | 1-216-061-00 | METAL GLAZE 3.3K | 5% 1/10W |
| R185 | 1-216-073-00 | METAL GLAZE 10K | 5% 1/10W | R352 | 1-216-675-11 | METAL CHIP 10K | 0.50% 1/10W |
| R187 | 1-216-061-00 | METAL GLAZE 3.3K | 5% 1/10W | R353 | 1-216-049-91 | METAL GLAZE 1K | 5% 1/10W |
| R189 | 1-216-073-00 | METAL GLAZE 10K | 5% 1/10W | R354 | 1-216-123-11 | METAL GLAZE 1.2M | 5% 1/10W |
| R190 | 1-216-049-91 | METAL GLAZE 1K | 5% 1/10W | R355 | 1-216-059-00 | METAL GLAZE 2.7K | 5% 1/10W |
| R192 | 1-216-073-00 | METAL GLAZE 10K | 5% 1/10W | R356 | 1-216-689-11 | METAL GLAZE 39K | 5% 1/10W |
| R195 | 1-216-071-00 | METAL GLAZE 8.2K | 5% 1/10W | R357 | 1-216-121-91 | METAL GLAZE 1M | 5% 1/10W |
| R197 | 1-216-061-00 | METAL GLAZE 3.3K | 5% 1/10W | R358 | 1-216-053-00 | METAL GLAZE 1.5K | 5% 1/10W |
| R199 | 1-216-295-91 | CONDUCTOR, CHIP | | R359 | 1-216-065-00 | METAL GLAZE 4.7K | 5% 1/10W |
| R200 | 1-216-686-11 | METAL CHIP 30K | 0.50% 1/10W | R360 | 1-216-039-00 | METAL GLAZE 390 | 5% 1/10W |
| R201 | 1-216-049-91 | METAL GLAZE 1K | 5% 1/10W | R361 | 1-216-017-91 | METAL GLAZE 47 | 5% 1/10W |
| R202 | 1-212-857-00 | FUSIBLE 10 | 5% 1/4W F | R362 | 1-216-067-00 | METAL GLAZE 5.6K | 5% 1/10W |
| R203 | 1-260-095-11 | CARBON 470 | 5% 1/2W | R363 | 1-216-113-00 | METAL GLAZE 470K | 5% 1/10W |
| R204 | 1-260-072-11 | CARBON 4.7 | 5% 1/2W | R364 | 1-216-113-00 | METAL GLAZE 470K | 5% 1/10W |
| R205 | 1-216-647-11 | METAL CHIP 680 | 0.50% 1/10W | R366 | 1-216-065-00 | METAL GLAZE 4.7K | 5% 1/10W |
| R206 | 1-216-073-00 | METAL GLAZE 10K | 5% 1/10W | R367 | 1-216-051-00 | METAL GLAZE 1.2K | 5% 1/10W |
| R207 | 1-216-065-00 | METAL GLAZE 4.7K | 5% 1/10W | R368 | 1-216-049-91 | METAL GLAZE 1K | 5% 1/10W |
| R208 | 1-216-065-00 | METAL GLAZE 4.7K | 5% 1/10W | R371 | 1-216-069-00 | METAL GLAZE 6.8K | 5% 1/10W |
| R209 | 1-216-073-00 | METAL GLAZE 10K | 5% 1/10W | R372 | 1-216-053-00 | METAL GLAZE 1.5K | 5% 1/10W |
| R210 | 1-216-061-00 | METAL GLAZE 3.3K | 5% 1/10W | R373 | 1-216-645-11 | METAL CHIP 560 | 0.50% 1/10W |
| R211 | 1-249-393-11 | CARBON 10 | 5% 1/4W F | R374 | 1-216-647-11 | METAL CHIP 680 | 0.50% 1/10W |
| R237 | 1-216-089-91 | METAL GLAZE 47K | 5% 1/10W | R375 | 1-216-053-00 | METAL GLAZE 1.5K | 5% 1/10W |
| R301 | 1-216-025-91 | METAL GLAZE 100 | 5% 1/10W | R376 | 1-216-111-91 | METAL GLAZE 390K | 5% 1/10W |
| R302 | 1-216-025-91 | METAL GLAZE 100 | 5% 1/10W | R378 | 1-216-114-00 | METAL GLAZE 510K | 5% 1/10W |
| R303 | 1-216-025-91 | METAL GLAZE 100 | 5% 1/10W | R379 | 1-216-069-00 | METAL GLAZE 6.8K | 5% 1/10W |
| R304 | 1-216-025-91 | METAL GLAZE 100 | 5% 1/10W | R380 | 1-216-065-00 | METAL GLAZE 4.7K | 5% 1/10W |
| R305 | 1-216-295-91 | CONDUCTOR, CHIP | | R381 | 1-216-689-11 | METAL GLAZE 39K | 5% 1/10W |
| R306 | 1-216-295-91 | CONDUCTOR, CHIP | | R382 | 1-216-101-00 | METAL GLAZE 150K | 5% 1/10W |
| R307 | 1-216-115-00 | METAL GLAZE 560K | 5% 1/10W | R383 | 1-216-061-00 | METAL GLAZE 3.3K | 5% 1/10W |
| R308 | 1-216-065-00 | METAL GLAZE 4.7K | 5% 1/10W | R384 | 1-216-073-00 | METAL GLAZE 10K | 5% 1/10W |
| R311 | 1-216-055-00 | METAL GLAZE 1.8K | 5% 1/10W | R385 | 1-216-065-00 | METAL GLAZE 4.7K | 5% 1/10W |
| R312 | 1-216-073-00 | METAL GLAZE 10K | 5% 1/10W | R386 | 1-216-091-00 | METAL GLAZE 56K | 5% 1/10W |
| R313 | 1-216-648-11 | METAL CHIP 750 | 0.50% 1/10W | R387 | 1-216-029-00 | METAL GLAZE 150 | 5% 1/10W |
| R314 | 1-216-099-00 | METAL GLAZE 120K | 5% 1/10W | R388 | 1-216-039-00 | METAL GLAZE 390 | 5% 1/10W |



| REF. NO. | PART NO. | DESCRIPTION | REMARK | REF. NO. | PART NO. | DESCRIPTION | REMARK |
|----------|--------------|------------------|-------------|----------|--------------|------------------|-------------|
| R389 | 1-216-649-11 | METAL CHIP 820 | 0.50% 1/10W | R464 | 1-216-065-00 | METAL GLAZE 4.7K | 5% 1/10W |
| R390 | 1-249-393-11 | CARBON 10 | 5% 1/4W F | R465 | 1-216-025-91 | METAL GLAZE 100 | 5% 1/10W |
| R391 | 1-216-113-00 | METAL GLAZE 470K | 5% 1/10W | R466 | 1-216-077-00 | METAL GLAZE 15K | 5% 1/10W |
| R393 | 1-216-073-00 | METAL GLAZE 10K | 5% 1/10W | | | | |
| R394 | 1-216-083-00 | METAL GLAZE 27K | 5% 1/10W | R467 | 1-216-121-91 | METAL GLAZE 1M | 5% 1/10W |
| | | | | R468 | 1-216-105-91 | METAL GLAZE 220K | 5% 1/10W |
| R395 | 1-216-651-11 | METAL CHIP 1K | 0.50% 1/10W | R469 | 1-216-063-91 | METAL GLAZE 3.9K | 5% 1/10W |
| R396 | 1-216-113-00 | METAL GLAZE 470K | 5% 1/10W | R470 | 1-216-069-00 | METAL GLAZE 6.8K | 5% 1/10W |
| R397 | 1-216-113-00 | METAL GLAZE 470K | 5% 1/10W | R471 | 1-216-109-00 | METAL GLAZE 330K | 5% 1/10W |
| R398 | 1-216-105-91 | METAL GLAZE 220K | 5% 1/10W | | | | |
| R399 | 1-216-111-91 | METAL GLAZE 390K | 5% 1/10W | R472 | 1-216-077-00 | METAL GLAZE 15K | 5% 1/10W |
| | | | | R473 | 1-216-121-91 | METAL GLAZE 1M | 5% 1/10W |
| R400 | 1-216-113-00 | METAL GLAZE 470K | 5% 1/10W | R474 | 1-216-649-11 | METAL CHIP 820 | 0.50% 1/10W |
| R401 | 1-216-053-00 | METAL GLAZE 1.5K | 5% 1/10W | R475 | 1-216-025-91 | METAL GLAZE 100 | 5% 1/10W |
| R402 | 1-216-053-00 | METAL GLAZE 1.5K | 5% 1/10W | R476 | 1-216-061-00 | METAL GLAZE 3.3K | 5% 1/10W |
| R403 | 1-216-069-00 | METAL GLAZE 6.8K | 5% 1/10W | | | | |
| R404 | 1-216-029-00 | METAL GLAZE 150 | 5% 1/10W | R477 | 1-216-061-00 | METAL GLAZE 3.3K | 5% 1/10W |
| | | | | R478 | 1-216-073-00 | METAL GLAZE 10K | 5% 1/10W |
| R406 | 1-216-083-00 | METAL GLAZE 27K | 5% 1/10W | R479 | 1-216-085-00 | METAL GLAZE 33K | 5% 1/10W |
| R407 | 1-216-077-00 | METAL GLAZE 15K | 5% 1/10W | R480 | 1-216-077-00 | METAL GLAZE 15K | 5% 1/10W |
| | | | (14M2U/E/A) | R481 | 1-216-033-00 | METAL GLAZE 220 | 5% 1/10W |
| R407 | 1-216-085-00 | METAL GLAZE 33K | 5% 1/10W | | | | |
| | | | (14M4U/E/A) | R482 | 1-216-057-00 | METAL GLAZE 2.2K | 5% 1/10W |
| R408 | 1-216-689-11 | METAL CHIP 39K | 0.50% 1/10W | R483 | 1-216-025-91 | METAL GLAZE 100 | 5% 1/10W |
| R410 | 1-216-069-00 | METAL GLAZE 6.8K | 5% 1/10W | R484 | 1-216-651-11 | METAL CHIP 1K | 0.50% 1/10W |
| | | | | R485 | 1-216-033-00 | METAL GLAZE 220 | 5% 1/10W |
| R411 | 1-216-033-00 | METAL GLAZE 220 | 5% 1/10W | R486 | 1-216-681-11 | METAL CHIP 18K | 0.50% 1/10W |
| R412 | 1-216-089-91 | METAL GLAZE 47K | 5% 1/10W | | | | |
| R413 | 1-216-668-11 | METAL CHIP 5.1K | 0.50% 1/10W | R487 | 1-216-653-11 | METAL CHIP 1.2K | 0.50% 1/10W |
| R414 | 1-216-662-11 | METAL CHIP 3K | 0.50% 1/10W | R488 | 1-216-073-00 | METAL GLAZE 10K | 5% 1/10W |
| | | | (14M2U/E/A) | R489 | 1-216-077-00 | METAL GLAZE 15K | 5% 1/10W |
| R416 | 1-216-113-00 | METAL GLAZE 470K | 5% 1/10W | R490 | 1-216-057-00 | METAL GLAZE 2.2K | 5% 1/10W |
| | | | | R491 | 1-216-061-00 | METAL GLAZE 3.3K | 5% 1/10W |
| R417 | 1-216-665-11 | METAL CHIP 3.9K | 0.50% 1/10W | | | | |
| R418 | 1-216-667-11 | METAL CHIP 4.7K | 0.50% 1/10W | R492 | 1-216-085-00 | METAL GLAZE 33K | 5% 1/10W |
| R419 | 1-216-065-00 | METAL GLAZE 4.7K | 5% 1/10W | R493 | 1-216-295-91 | CONDUCTOR, CHIP | |
| R420 | 1-216-689-11 | METAL GLAZE 39K | 5% 1/10W | R494 | 1-216-696-11 | METAL CHIP 75K | 0.50% 1/10W |
| R422 | 1-216-073-00 | METAL GLAZE 10K | 5% 1/10W | R495 | 1-216-651-11 | METAL CHIP 1K | 0.50% 1/10W |
| | | | | R496 | 1-216-073-00 | METAL GLAZE 10K | 5% 1/10W |
| R423 | 1-216-073-00 | METAL GLAZE 10K | 5% 1/10W | | | | |
| R424 | 1-216-033-00 | METAL GLAZE 220 | 5% 1/10W | R497 | 1-216-653-11 | METAL CHIP 1.2K | 0.50% 1/10W |
| R425 | 1-216-049-91 | METAL GLAZE 1K | 5% 1/10W | R498 | 1-216-061-00 | METAL GLAZE 3.3K | 5% 1/10W |
| R426 | 1-216-039-00 | METAL GLAZE 390 | 5% 1/10W | R499 | 1-216-033-00 | METAL GLAZE 220 | 5% 1/10W |
| R427 | 1-216-033-00 | METAL GLAZE 220 | 5% 1/10W | R500 | 1-216-689-11 | METAL GLAZE 39K | 5% 1/10W |
| | | | | R501 | 1-216-077-00 | METAL GLAZE 15K | 5% 1/10W |
| R428 | 1-216-097-91 | METAL GLAZE 100K | 5% 1/10W | | | | |
| R429 | 1-216-073-00 | METAL GLAZE 10K | 5% 1/10W | R502 | 1-216-677-11 | METAL CHIP 12K | 0.50% 1/10W |
| R430 | 1-216-119-00 | METAL GLAZE 820K | 5% 1/10W | R503 | 1-216-677-11 | METAL CHIP 12K | 0.50% 1/10W |
| R431 | 1-216-097-91 | METAL GLAZE 100K | 5% 1/10W | R504 | 1-216-111-91 | METAL GLAZE 390K | 5% 1/10W |
| R432 | 1-216-089-91 | METAL GLAZE 47K | 5% 1/10W | R505 | 1-216-067-00 | METAL GLAZE 5.6K | 5% 1/10W |
| | | | | R506 | 1-216-073-00 | METAL GLAZE 10K | 5% 1/10W |
| R434 | 1-216-109-00 | METAL GLAZE 330K | 5% 1/10W | | | | |
| R435 | 1-216-105-91 | METAL GLAZE 220K | 5% 1/10W | R507 | 1-216-083-00 | METAL GLAZE 27K | 5% 1/10W |
| R436 | 1-216-113-00 | METAL GLAZE 470K | 5% 1/10W | R508 | 1-216-105-91 | METAL GLAZE 220K | 5% 1/10W |
| R437 | 1-216-097-91 | METAL GLAZE 100K | 5% 1/10W | R509 | 1-216-089-91 | METAL GLAZE 47K | 5% 1/10W |
| R438 | 1-216-053-00 | METAL GLAZE 1.5K | 5% 1/10W | R510 | 1-216-097-91 | METAL GLAZE 100K | 5% 1/10W |
| | | | | R511 | 1-216-099-00 | METAL GLAZE 120K | 5% 1/10W |
| R439 | 1-216-033-00 | METAL GLAZE 220 | 5% 1/10W | | | | |
| R440 | 1-216-049-91 | METAL GLAZE 1K | 5% 1/10W | R512 | 1-216-055-00 | METAL GLAZE 1.8K | 5% 1/10W |
| R441 | 1-216-645-11 | METAL CHIP 560 | 0.50% 1/10W | R513 | 1-216-295-91 | CONDUCTOR, CHIP | |
| R442 | 1-216-647-11 | METAL CHIP 680 | 0.50% 1/10W | R514 | 1-216-295-91 | CONDUCTOR, CHIP | |
| R443 | 1-216-049-91 | METAL GLAZE 1K | 5% 1/10W | R515 | 1-216-675-11 | METAL CHIP 10K | 0.50% 1/10W |
| | | | | R516 | 1-216-103-00 | METAL GLAZE 180K | 5% 1/10W |
| R444 | 1-216-105-91 | METAL GLAZE 220K | 5% 1/10W | | | | |
| R445 | 1-216-095-00 | METAL GLAZE 82K | 5% 1/10W | R517 | 1-214-888-00 | METAL 10K | 1% 1/2W |
| R447 | 1-216-069-00 | METAL GLAZE 6.8K | 5% 1/10W | R518 | 1-260-123-11 | CARBON 100K | 5% 1/2W |
| R448 | 1-216-049-91 | METAL GLAZE 1K | 5% 1/10W | R519 | 1-216-017-91 | METAL GLAZE 47 | 5% 1/10W |
| R449 | 1-216-073-00 | METAL GLAZE 10K | 5% 1/10W | R520 | 1-249-423-11 | CARBON 3.3K | 5% 1/4W F |
| | | | | R521 | 1-216-065-00 | METAL GLAZE 4.7K | 5% 1/10W |
| R450 | 1-216-121-91 | METAL GLAZE 1M | 5% 1/10W | | | | |
| R451 | 1-216-037-00 | METAL GLAZE 330 | 5% 1/10W | R523 | 1-215-892-11 | METAL OXIDE 1K | 5% 2W F |
| R452 | 1-216-651-11 | METAL CHIP 1K | 0.50% 1/10W | R524 | 1-216-093-00 | METAL GLAZE 68K | 5% 1/10W |
| R453 | 1-216-097-91 | METAL GLAZE 100K | 5% 1/10W | R525 | 1-216-069-00 | METAL GLAZE 6.8K | 5% 1/10W |
| R455 | 1-216-085-00 | METAL GLAZE 33K | 5% 1/10W | R526 | 1-216-089-91 | METAL GLAZE 47K | 5% 1/10W |
| | | | | R527 | 1-216-089-91 | METAL GLAZE 47K | 5% 1/10W |
| R456 | 1-216-053-00 | METAL GLAZE 1.5K | 5% 1/10W | | | | |
| R457 | 1-216-025-91 | METAL GLAZE 100 | 5% 1/10W | R528 | 1-216-089-91 | METAL GLAZE 47K | 5% 1/10W |
| R458 | 1-216-113-00 | METAL GLAZE 470K | 5% 1/10W | R529 | 1-216-089-91 | METAL GLAZE 47K | 5% 1/10W |
| R459 | 1-216-649-11 | METAL CHIP 820 | 0.50% 1/10W | R530 | 1-216-367-11 | METAL OXIDE 0.68 | 5% 2W F |
| R460 | 1-216-295-91 | CONDUCTOR, CHIP | | R531 | 1-216-077-00 | METAL GLAZE 15K | 5% 1/10W |
| | | | | R532 | 1-215-920-11 | METAL OXIDE 3.3K | 5% 3W F |
| R462 | 1-216-651-11 | METAL CHIP 1K | 0.50% 1/10W | | | | |
| R463 | 1-216-065-00 | METAL GLAZE 4.7K | 5% 1/10W | R533 | 1-247-723-71 | CARBON 6.8K | 5% 1/4W F |



| REF. NO. | PART NO. | DESCRIPTION | REMARK | REF. NO. | PART NO. | DESCRIPTION | REMARK |
|----------|--------------|------------------|----------------------------|----------|--------------|------------------|-------------|
| R534 | 1-216-085-00 | METAL GLAZE 33K | 5% 1/10W | R599 | 1-216-645-11 | METAL CHIP 560 | 0.50% 1/10W |
| R535 | 1-249-448-11 | CARBON 1.2 | 5% 1/4W F | R1103 | 1-216-077-00 | METAL GLAZE 15K | 5% 1/10W |
| R536 | 1-216-101-00 | METAL GLAZE 150K | 5% 1/10W | R1104 | 1-216-699-11 | METAL CHIP 100K | 0.50% 1/10W |
| R537 | 1-216-089-91 | METAL GLAZE 47K | 5% 1/10W | R1105 | 1-216-073-00 | METAL GLAZE 10K | 5% 1/10W |
| R539 | 1-216-065-00 | METAL GLAZE 4.7K | 5% 1/10W | R1106 | 1-216-097-91 | METAL GLAZE 100K | 5% 1/10W |
| R540 | 1-216-113-00 | METAL GLAZE 470K | 5% 1/10W | R1107 | 1-216-059-00 | METAL GLAZE 2.7K | 5% 1/10W |
| R541 | 1-249-383-11 | CARBON 1.5 | 5% 1/4W F | R1108 | 1-216-681-11 | METAL CHIP 18K | 0.50% 1/10W |
| R542 | 1-216-057-00 | METAL GLAZE 2.2K | 5% 1/10W | R1111 | 1-216-065-00 | METAL GLAZE 4.7K | 5% 1/10W |
| R543 | 1-212-883-00 | FUSIBLE 120 | 5% 1/4W F | R1112 | 1-216-065-00 | METAL GLAZE 4.7K | 5% 1/10W |
| R544 | 1-216-095-00 | METAL GLAZE 82K | 5% 1/10W | R1113 | 1-216-081-00 | METAL GLAZE 22K | 5% 1/10W |
| R545 | 1-216-073-00 | METAL GLAZE 10K | 5% 1/10W | R1114 | 1-216-049-91 | METAL GLAZE 1K | 5% 1/10W |
| R546 | 1-249-425-11 | CARBON 4.7K | 5% 1/4W F | R1115 | 1-216-049-91 | METAL GLAZE 1K | 5% 1/10W |
| R547 | 1-216-091-00 | METAL GLAZE 56K | 5% 1/10W | R1116 | 1-216-677-11 | METAL CHIP 12K | 0.50% 1/10W |
| R548 | 1-216-057-00 | METAL GLAZE 2.2K | 5% 1/10W | R1117 | 1-216-069-00 | METAL GLAZE 6.8K | 5% 1/10W |
| R549 | 1-216-677-11 | METAL CHIP 12K | 0.50% 1/10W | R1118 | 1-216-113-00 | METAL GLAZE 470K | 5% 1/10W |
| R550 | 1-216-053-00 | METAL GLAZE 1.5K | 5% 1/10W | R1119 | 1-216-694-11 | METAL CHIP 62K | 0.50% 1/10W |
| R551 | 1-216-077-00 | METAL GLAZE 15K | 5% 1/10W | R1120 | 1-216-089-91 | METAL GLAZE 47K | 5% 1/10W |
| R552 | 1-216-033-00 | METAL GLAZE 220 | 5% 1/10W | R1123 | 1-216-071-00 | METAL GLAZE 8.2K | 5% 1/10W |
| R553 | 1-216-083-00 | METAL GLAZE 27K | 5% 1/10W | R1124 | 1-216-113-00 | METAL GLAZE 470K | 5% 1/10W |
| R554 | 1-216-095-00 | METAL GLAZE 82K | 5% 1/10W | R1125 | 1-216-049-91 | METAL GLAZE 1K | 5% 1/10W |
| R555 | 1-216-692-11 | METAL CHIP 51K | 0.50% 1/10W | R1126 | 1-216-041-00 | METAL GLAZE 470 | 5% 1/10W |
| R556 | 1-216-463-00 | METAL OXIDE 12K | 5% 2W F | R1128 | 1-216-065-00 | METAL GLAZE 4.7K | 5% 1/10W |
| R558 | 1-215-868-00 | METAL OXIDE 680 | 5% 1W F | R1129 | 1-216-071-00 | METAL GLAZE 8.2K | 5% 1/10W |
| R559 | 1-216-105-91 | METAL GLAZE 220K | 5% 1/10W (14M2U/E/A) | R1130 | 1-216-049-91 | METAL GLAZE 1K | 5% 1/10W |
| R559 | 1-216-109-00 | METAL GLAZE 330K | 5% 1/10W (14M4U/E/A) | R1131 | 1-216-049-91 | METAL GLAZE 1K | 5% 1/10W |
| R560 | 1-216-091-00 | METAL GLAZE 56K | 5% 1/10W | R1132 | 1-216-071-00 | METAL GLAZE 8.2K | 5% 1/10W |
| R561 | 1-216-049-91 | METAL GLAZE 1K | 5% 1/10W | R1133 | 1-216-069-00 | METAL GLAZE 6.8K | 5% 1/10W |
| R562 | 1-247-696-11 | CARBON 47 | 5% 1/4W F (14M4U/E/A) | R1134 | 1-216-073-00 | METAL GLAZE 10K | 5% 1/10W |
| R563 | 1-216-017-91 | METAL GLAZE 47 | 5% 1/10W | R1136 | 1-216-097-91 | METAL GLAZE 100K | 5% 1/10W |
| R564 | 1-216-107-00 | METAL GLAZE 270K | 5% 1/10W | R1137 | 1-216-073-00 | METAL GLAZE 10K | 5% 1/10W |
| R565 | 1-216-033-00 | METAL GLAZE 220 | 5% 1/10W | R1138 | 1-216-081-00 | METAL GLAZE 22K | 5% 1/10W |
| R566 | 1-216-685-11 | METAL CHIP 27K | 0.50% 1/10W (14M2U/E/A) | R1139 | 1-216-055-00 | METAL GLAZE 1.8K | 5% 1/10W |
| R566 | 1-216-691-11 | METAL CHIP 47K | 0.50% 1/10W (14M4U/E/A) | R1140 | 1-216-653-11 | METAL CHIP 1.2K | 0.50% 1/10W |
| R567 | 1-216-081-00 | METAL GLAZE 22K | 5% 1/10W | R1141 | 1-216-073-00 | METAL GLAZE 10K | 5% 1/10W |
| R568 | 1-216-073-00 | METAL GLAZE 10K | 5% 1/10W | R1142 | 1-216-653-11 | METAL CHIP 1.2K | 0.50% 1/10W |
| R569 | 1-260-114-11 | CARBON 18K | 5% 1/2W | R1143 | 1-216-653-11 | METAL CHIP 1.2K | 0.50% 1/10W |
| R571 | 1-216-065-00 | METAL GLAZE 4.7K | 5% 1/10W | R1144 | 1-216-073-00 | METAL GLAZE 10K | 5% 1/10W |
| R572 | 1-216-059-00 | METAL GLAZE 2.7K | 5% 1/10W | R1145 | 1-216-067-00 | METAL GLAZE 5.6K | 5% 1/10W |
| R573 | 1-216-071-00 | METAL GLAZE 8.2K | 5% 1/10W | R1146 | 1-216-057-00 | METAL GLAZE 2.2K | 5% 1/10W |
| R574 | 1-216-089-91 | METAL GLAZE 47K | 5% 1/10W (14M4U/E/A) | R1147 | 1-216-057-00 | METAL GLAZE 2.2K | 5% 1/10W |
| R575 | 1-249-383-11 | CARBON 1.5 | 5% 1/4W F | R1150 | 1-216-037-00 | METAL GLAZE 330 | 5% 1/10W |
| R576 | 1-216-101-00 | METAL GLAZE 150K | 5% 1/10W | R1151 | 1-216-081-00 | METAL GLAZE 22K | 5% 1/10W |
| R577 | 1-216-073-00 | METAL GLAZE 10K | 5% 1/10W (14M4U/E/A) | R1155 | 1-216-133-00 | METAL GLAZE 3.3M | 5% 1/10W |
| R578 | 1-216-693-11 | METAL CHIP 56K | 0.50% 1/10W | R1161 | 1-218-776-11 | METAL CHIP 1M | 0.50% 1/10W |
| R580 | 1-216-105-91 | METAL GLAZE 220K | 5% 1/10W | R1162 | 1-218-768-11 | METAL CHIP 470K | 0.50% 1/10W |
| R581 | 1-216-049-91 | METAL GLAZE 1K | 5% 1/10W (14M4U/E/A) | R1163 | 1-216-033-00 | METAL GLAZE 220 | 5% 1/10W |
| R582 | 1-216-085-00 | METAL GLAZE 33K | 5% 1/10W | R1164 | 1-216-049-91 | METAL GLAZE 1K | 5% 1/10W |
| R583 | 1-216-039-00 | METAL GLAZE 390 | 5% 1/10W | R1165 | 1-216-049-91 | METAL GLAZE 1K | 5% 1/10W |
| R584 | 1-216-071-00 | METAL GLAZE 8.2K | 5% 1/10W | R1167 | 1-216-097-91 | METAL GLAZE 100K | 5% 1/10W |
| R585 | 1-216-033-00 | METAL GLAZE 220 | 5% 1/10W | R1168 | 1-216-097-91 | METAL GLAZE 100K | 5% 1/10W |
| R586 | 1-216-686-11 | METAL CHIP 30K | 0.50% 1/10W | R1169 | 1-216-097-91 | METAL GLAZE 100K | 5% 1/10W |
| R587 | 1-216-675-11 | METAL CHIP 10K | 0.50% 1/10W | R1170 | 1-216-089-91 | METAL GLAZE 47K | 5% 1/10W |
| R588 | 1-216-077-00 | METAL GLAZE 15K | 5% 1/10W | R1171 | 1-216-085-00 | METAL GLAZE 33K | 5% 1/10W |
| R589 | 1-216-067-00 | METAL GLAZE 5.6K | 5% 1/10W | R1172 | 1-216-085-00 | METAL GLAZE 33K | 5% 1/10W |
| R590 | 1-216-081-00 | METAL GLAZE 22K | 5% 1/10W | R1173 | 1-216-295-91 | CONDUCTOR, CHIP | |
| R591 | 1-216-683-11 | METAL CHIP 22K | 0.50% 1/10W | R1174 | 1-216-089-91 | METAL GLAZE 47K | 5% 1/10W |
| R592 | 1-247-688-11 | CARBON 10 | 5% 1/4W F | R1177 | 1-216-071-00 | METAL GLAZE 8.2K | 5% 1/10W |
| R593 | 1-216-647-11 | METAL CHIP 680 | 0.50% 1/10W | R1179 | 1-216-041-00 | METAL GLAZE 470 | 5% 1/10W |
| R594 | 1-260-104-91 | CARBON 2.7K | 5% 1/2W | R1180 | 1-216-089-91 | METAL GLAZE 47K | 5% 1/10W |
| R595 | 1-216-689-11 | METAL GLAZE 39K | 5% 1/10W | R1182 | 1-216-131-11 | METAL GLAZE 2.7M | 5% 1/10W |
| R596 | 1-214-754-00 | METAL 11K | 1% 1/4W | R1183 | 1-216-071-00 | METAL GLAZE 8.2K | 5% 1/10W |
| R597 | 1-249-417-11 | CARBON 1K | 5% 1/4W F | R1184 | 1-216-131-11 | METAL GLAZE 2.7M | 5% 1/10W |
| R598 | 1-216-085-00 | METAL GLAZE 33K | 5% 1/10W | R1185 | 1-216-071-00 | METAL GLAZE 8.2K | 5% 1/10W |
| | | | | R1186 | 1-216-131-11 | METAL GLAZE 2.7M | 5% 1/10W |
| | | | | R1187 | 1-216-071-00 | METAL GLAZE 8.2K | 5% 1/10W |
| | | | | R1188 | 1-216-131-11 | METAL GLAZE 2.7M | 5% 1/10W |
| | | | | R1189 | 1-216-071-00 | METAL GLAZE 8.2K | 5% 1/10W |
| | | | | R1190 | 1-216-131-11 | METAL GLAZE 2.7M | 5% 1/10W |
| | | | | R1191 | 1-216-071-00 | METAL GLAZE 8.2K | 5% 1/10W |



| REF. NO. | PART NO. | DESCRIPTION | REMARK |
|----------|--------------|------------------|-------------|
| R1192 | 1-216-131-11 | METAL GLAZE 2.7M | 5% 1/10W |
| R1193 | 1-216-025-91 | METAL GLAZE 100 | 5% 1/10W |
| R1194 | 1-216-085-00 | METAL GLAZE 33K | 5% 1/10W |
| R1195 | 1-216-025-91 | METAL GLAZE 100 | 5% 1/10W |
| R1196 | 1-216-085-00 | METAL GLAZE 33K | 5% 1/10W |
| R1197 | 1-216-025-91 | METAL GLAZE 100 | 5% 1/10W |
| R1198 | 1-216-085-00 | METAL GLAZE 33K | 5% 1/10W |
| R1301 | 1-216-029-00 | METAL GLAZE 150 | 5% 1/10W |
| R1302 | 1-216-029-00 | METAL GLAZE 150 | 5% 1/10W |
| R1303 | 1-216-039-00 | METAL GLAZE 390 | 5% 1/10W |
| R1304 | 1-216-689-11 | METAL GLAZE 39K | 5% 1/10W |
| R1305 | 1-216-033-00 | METAL GLAZE 220 | 5% 1/10W |
| R1306 | 1-216-645-11 | METAL CHIP 560 | 0.50% 1/10W |
| R1307 | 1-216-091-00 | METAL GLAZE 56K | 5% 1/10W |
| R1308 | 1-216-645-11 | METAL CHIP 560 | 0.50% 1/10W |
| R1309 | 1-216-025-91 | METAL GLAZE 100 | 5% 1/10W |
| R1311 | 1-216-089-91 | METAL GLAZE 47K | 5% 1/10W |
| R1312 | 1-216-027-00 | METAL GLAZE 120 | 5% 1/10W |
| R1313 | 1-216-097-91 | METAL GLAZE 100K | 5% 1/10W |
| R1314 | 1-216-081-00 | METAL GLAZE 22K | 5% 1/10W |
| R1315 | 1-216-025-91 | METAL GLAZE 100 | 5% 1/10W |
| R1316 | 1-216-065-00 | METAL GLAZE 4.7K | 5% 1/10W |
| R1317 | 1-216-033-00 | METAL GLAZE 220 | 5% 1/10W |
| R1318 | 1-216-089-91 | METAL GLAZE 47K | 5% 1/10W |
| R1319 | 1-216-085-00 | METAL GLAZE 33K | 5% 1/10W |
| R1320 | 1-216-057-00 | METAL GLAZE 2.2K | 5% 1/10W |
| R1321 | 1-216-649-11 | METAL CHIP 820 | 0.50% 1/10W |
| R1322 | 1-216-057-00 | METAL GLAZE 2.2K | 5% 1/10W |
| R1324 | 1-216-061-00 | METAL GLAZE 3.3K | 5% 1/10W |
| R1325 | 1-216-652-11 | METAL CHIP 1.1K | 0.50% 1/10W |
| R1326 | 1-216-073-00 | METAL GLAZE 10K | 5% 1/10W |
| R1327 | 1-216-073-00 | METAL GLAZE 10K | 5% 1/10W |
| R1328 | 1-216-125-00 | METAL GLAZE 1.5M | 5% 1/10W |
| R1329 | 1-216-103-00 | METAL GLAZE 180K | 5% 1/10W |
| R1330 | 1-216-081-00 | METAL GLAZE 22K | 5% 1/10W |
| R1331 | 1-216-679-11 | METAL CHIP 15K | 0.50% 1/10W |
| R1332 | 1-216-671-11 | METAL CHIP 6.8K | 0.50% 1/10W |
| R1333 | 1-216-049-91 | METAL GLAZE 1K | 5% 1/10W |
| R1334 | 1-216-063-91 | METAL GLAZE 3.9K | 5% 1/10W |
| R1335 | 1-249-401-11 | CARBON 47 | 5% 1/4W F |
| R1336 | 1-216-095-00 | METAL GLAZE 82K | 5% 1/10W |
| R1337 | 1-216-061-00 | METAL GLAZE 3.3K | 5% 1/10W |
| R1338 | 1-216-647-11 | METAL CHIP 680 | 0.50% 1/10W |
| R1339 | 1-216-033-00 | METAL GLAZE 220 | 5% 1/10W |
| R1340 | 1-216-033-00 | METAL GLAZE 220 | 5% 1/10W |
| R1341 | 1-216-033-00 | METAL GLAZE 220 | 5% 1/10W |
| R1342 | 1-216-083-00 | METAL GLAZE 27K | 5% 1/10W |
| R1343 | 1-216-037-00 | METAL GLAZE 330 | 5% 1/10W |
| R1344 | 1-216-093-00 | METAL GLAZE 68K | 5% 1/10W |
| R1345 | 1-216-109-00 | METAL GLAZE 330K | 5% 1/10W |
| R1346 | 1-216-097-91 | METAL GLAZE 100K | 5% 1/10W |
| R1347 | 1-216-073-00 | METAL GLAZE 10K | 5% 1/10W |
| R1348 | 1-216-071-00 | METAL GLAZE 8.2K | 5% 1/10W |
| R1349 | 1-216-035-00 | METAL GLAZE 270 | 5% 1/10W |
| R1350 | 1-216-073-00 | METAL GLAZE 10K | 5% 1/10W |
| R1351 | 1-216-033-00 | METAL GLAZE 220 | 5% 1/10W |
| R1352 | 1-216-065-00 | METAL GLAZE 4.7K | 5% 1/10W |
| R1353 | 1-216-065-00 | METAL GLAZE 4.7K | 5% 1/10W |
| R1354 | 1-216-089-91 | METAL GLAZE 47K | 5% 1/10W |
| R1355 | 1-216-033-00 | METAL GLAZE 220 | 5% 1/10W |
| R1356 | 1-216-105-91 | METAL GLAZE 220K | 5% 1/10W |
| R1357 | 1-216-101-00 | METAL GLAZE 150K | 5% 1/10W |
| R1358 | 1-216-071-00 | METAL GLAZE 8.2K | 5% 1/10W |
| R1359 | 1-216-099-00 | METAL GLAZE 120K | 5% 1/10W |
| R1360 | 1-216-065-00 | METAL GLAZE 4.7K | 5% 1/10W |
| R1361 | 1-216-113-00 | METAL GLAZE 470K | 5% 1/10W |
| R1362 | 1-216-676-11 | METAL CHIP 11K | 0.50% 1/10W |
| R1363 | 1-216-113-00 | METAL GLAZE 470K | 5% 1/10W |
| R1364 | 1-216-073-00 | METAL GLAZE 10K | 5% 1/10W |

| REF. NO. | PART NO. | DESCRIPTION | REMARK |
|----------|--------------|------------------|-------------|
| R1365 | 1-216-131-11 | METAL GLAZE 2.7M | 5% 1/10W |
| R1366 | 1-216-081-00 | METAL GLAZE 22K | 5% 1/10W |
| R1367 | 1-216-660-11 | METAL CHIP 2.4K | 0.50% 1/10W |
| R1368 | 1-216-059-00 | METAL GLAZE 2.7K | 5% 1/10W |
| R1369 | 1-216-051-00 | METAL GLAZE 1.2K | 5% 1/10W |
| R1370 | 1-216-105-91 | METAL GLAZE 220K | 5% 1/10W |
| R1371 | 1-216-113-00 | METAL GLAZE 470K | 5% 1/10W |
| R1372 | 1-216-089-91 | METAL GLAZE 47K | 5% 1/10W |
| R1373 | 1-216-063-91 | METAL GLAZE 3.9K | 5% 1/10W |
| R1374 | 1-216-101-00 | METAL GLAZE 150K | 5% 1/10W |
| R1375 | 1-216-645-11 | METAL CHIP 560 | 0.50% 1/10W |
| R1376 | 1-216-647-11 | METAL CHIP 680 | 0.50% 1/10W |
| R1377 | 1-216-055-00 | METAL GLAZE 1.8K | 5% 1/10W |
| R1378 | 1-216-065-00 | METAL GLAZE 4.7K | 5% 1/10W |
| R1379 | 1-216-037-00 | METAL GLAZE 330 | 5% 1/10W |
| R1380 | 1-216-645-11 | METAL CHIP 560 | 0.50% 1/10W |
| R1381 | 1-216-647-11 | METAL CHIP 680 | 0.50% 1/10W |
| R1382 | 1-216-073-00 | METAL GLAZE 10K | 5% 1/10W |
| R1383 | 1-216-681-11 | METAL CHIP 18K | 0.50% 1/10W |
| R1384 | 1-216-091-00 | METAL GLAZE 56K | 5% 1/10W |
| R1385 | 1-216-073-00 | METAL GLAZE 10K | 5% 1/10W |
| R1386 | 1-216-077-00 | METAL GLAZE 15K | 5% 1/10W |
| R1387 | 1-216-653-11 | METAL CHIP 1.2K | 0.50% 1/10W |
| R1388 | 1-216-689-11 | METAL CHIP 39K | 0.50% 1/10W |
| R1389 | 1-216-658-11 | METAL CHIP 2K | 0.50% 1/10W |
| R1390 | 1-216-647-11 | METAL CHIP 680 | 0.50% 1/10W |
| R1391 | 1-216-025-91 | METAL GLAZE 100 | 5% 1/10W |
| R1392 | 1-216-041-00 | METAL GLAZE 470 | 5% 1/10W |
| R1393 | 1-216-063-91 | METAL GLAZE 3.9K | 5% 1/10W |
| R1394 | 1-216-041-00 | METAL GLAZE 470 | 5% 1/10W |
| R1395 | 1-216-071-00 | METAL GLAZE 8.2K | 5% 1/10W |
| R1396 | 1-216-071-00 | METAL GLAZE 8.2K | 5% 1/10W |
| R1397 | 1-216-065-00 | METAL GLAZE 4.7K | 5% 1/10W |
| R1399 | 1-216-073-00 | METAL GLAZE 10K | 5% 1/10W |
| R1401 | 1-216-085-00 | METAL GLAZE 33K | 5% 1/10W |
| R1402 | 1-216-295-91 | CONDUCTOR, CHIP | |
| R1403 | 1-216-651-11 | METAL CHIP 1K | 0.50% 1/10W |
| R1404 | 1-216-681-11 | METAL CHIP 18K | 0.50% 1/10W |
| R1405 | 1-216-071-00 | METAL GLAZE 8.2K | 5% 1/10W |
| R1406 | 1-216-653-11 | METAL CHIP 1.2K | 0.50% 1/10W |
| R1407 | 1-216-061-00 | METAL GLAZE 3.3K | 5% 1/10W |
| R1408 | 1-216-113-00 | METAL GLAZE 470K | 5% 1/10W |
| R1409 | 1-216-295-91 | CONDUCTOR, CHIP | |
| R1410 | 1-216-053-00 | METAL GLAZE 1.5K | 5% 1/10W |
| R1411 | 1-216-073-00 | METAL GLAZE 10K | 5% 1/10W |
| R1412 | 1-216-107-00 | METAL GLAZE 270K | 5% 1/10W |
| R1413 | 1-216-081-00 | METAL GLAZE 22K | 5% 1/10W |
| R1414 | 1-216-057-00 | METAL GLAZE 2.2K | 5% 1/10W |
| R1415 | 1-216-093-00 | METAL GLAZE 68K | 5% 1/10W |
| R1416 | 1-216-113-00 | METAL GLAZE 470K | 5% 1/10W |
| R1417 | 1-216-033-00 | METAL GLAZE 220 | 5% 1/10W |
| R1418 | 1-216-033-00 | METAL GLAZE 220 | 5% 1/10W |
| R1419 | 1-216-025-91 | METAL GLAZE 100 | 5% 1/10W |
| R1420 | 1-216-089-91 | METAL GLAZE 47K | 5% 1/10W |
| R1421 | 1-216-649-11 | METAL CHIP 820 | 0.50% 1/10W |
| R1422 | 1-216-085-00 | METAL GLAZE 33K | 5% 1/10W |
| R1423 | 1-216-057-00 | METAL GLAZE 2.2K | 5% 1/10W |
| R1424 | 1-216-081-00 | METAL GLAZE 22K | 5% 1/10W |
| R1425 | 1-216-013-00 | METAL GLAZE 33 | 5% 1/10W |
| R1426 | 1-216-113-00 | METAL GLAZE 470K | 5% 1/10W |
| R1427 | 1-216-681-11 | METAL CHIP 18K | 0.50% 1/10W |
| R1428 | 1-216-061-00 | METAL GLAZE 3.3K | 5% 1/10W |
| R1429 | 1-216-668-11 | METAL CHIP 5.1K | 0.50% 1/10W |
| R1430 | 1-216-073-00 | METAL GLAZE 10K | 5% 1/10W |
| R1431 | 1-216-129-00 | METAL GLAZE 2.2M | 5% 1/10W |
| R1432 | 1-216-089-91 | METAL GLAZE 47K | 5% 1/10W |
| R1433 | 1-216-085-00 | METAL GLAZE 33K | 5% 1/10W |
| R1434 | 1-216-645-11 | METAL CHIP 560 | 0.50% 1/10W |
| R1435 | 1-216-055-00 | METAL GLAZE 1.8K | 5% 1/10W |

A

• The components identified by **☒** in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.

Les composants identifiés par une trame et une marque **☒** sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

The components identified by shading and mark **☒** are critical for safety. Replace only with part number specified.

| REF. NO. | PART NO. | DESCRIPTION | REMARK |
|----------|--------------|------------------|-------------|
| R1436 | 1-216-073-00 | METAL GLAZE 10K | 5% 1/10W |
| R1437 | 1-216-069-00 | METAL GLAZE 6.8K | 5% 1/10W |
| R1438 | 1-216-073-00 | METAL GLAZE 10K | 5% 1/10W |
| R1439 | 1-216-059-00 | METAL GLAZE 2.7K | 5% 1/10W |
| R1440 | 1-216-041-00 | METAL GLAZE 470 | 5% 1/10W |
| R1441 | 1-216-033-00 | METAL GLAZE 220 | 5% 1/10W |
| R1442 | 1-216-073-00 | METAL GLAZE 10K | 5% 1/10W |
| R1443 | 1-216-013-00 | METAL GLAZE 33 | 5% 1/10W |
| R1444 | 1-216-057-00 | METAL GLAZE 2.2K | 5% 1/10W |
| R1445 | 1-216-071-00 | METAL GLAZE 8.2K | 5% 1/10W |
| R1446 | 1-216-071-00 | METAL GLAZE 8.2K | 5% 1/10W |
| R1447 | 1-216-081-00 | METAL GLAZE 22K | 5% 1/10W |
| R1448 | 1-216-085-00 | METAL GLAZE 33K | 5% 1/10W |
| R1449 | 1-216-057-00 | METAL GLAZE 2.2K | 5% 1/10W |
| R1450 | 1-216-129-00 | METAL GLAZE 2.2M | 5% 1/10W |
| R1451 | 1-216-093-00 | METAL GLAZE 68K | 5% 1/10W |
| R1452 | 1-216-085-00 | METAL GLAZE 33K | 5% 1/10W |
| R1453 | 1-216-013-00 | METAL GLAZE 33 | 5% 1/10W |
| R1454 | 1-216-065-00 | METAL GLAZE 4.7K | 5% 1/10W |
| R1455 | 1-216-113-00 | METAL GLAZE 470K | 5% 1/10W |
| R1456 | 1-216-129-00 | METAL GLAZE 2.2M | 5% 1/10W |
| R1457 | 1-216-089-91 | METAL GLAZE 47K | 5% 1/10W |
| R1458 | 1-216-085-00 | METAL GLAZE 33K | 5% 1/10W |
| R1459 | 1-216-133-00 | METAL GLAZE 3.3M | 5% 1/10W |
| R1460 | 1-216-097-91 | METAL GLAZE 100K | 5% 1/10W |
| R1461 | 1-216-645-11 | METAL CHIP 560 | 0.50% 1/10W |
| R1462 | 1-216-645-11 | METAL CHIP 560 | 0.50% 1/10W |
| R1463 | 1-216-645-11 | METAL CHIP 560 | 0.50% 1/10W |
| R1464 | 1-216-057-00 | METAL GLAZE 2.2K | 5% 1/10W |
| R1465 | 1-216-097-91 | METAL GLAZE 100K | 5% 1/10W |
| R1466 | 1-216-055-00 | METAL GLAZE 1.8K | 5% 1/10W |
| R1467 | 1-216-073-00 | METAL GLAZE 10K | 5% 1/10W |
| R1468 | 1-216-091-00 | METAL GLAZE 56K | 5% 1/10W |
| R1469 | 1-216-057-00 | METAL GLAZE 2.2K | 5% 1/10W |
| R1470 | 1-216-057-00 | METAL GLAZE 2.2K | 5% 1/10W |
| R1471 | 1-216-049-91 | METAL GLAZE 1K | 5% 1/10W |
| R1472 | 1-216-085-00 | METAL GLAZE 33K | 5% 1/10W |
| R1473 | 1-216-081-00 | METAL GLAZE 22K | 5% 1/10W |
| R1475 | 1-216-677-11 | METAL CHIP 12K | 0.50% 1/10W |
| R1476 | 1-216-063-91 | METAL GLAZE 3.9K | 5% 1/10W |
| R1477 | 1-216-057-00 | METAL GLAZE 2.2K | 5% 1/10W |
| R1478 | 1-216-061-00 | METAL GLAZE 3.3K | 5% 1/10W |
| R1480 | 1-216-089-91 | METAL GLAZE 47K | 5% 1/10W |
| R1481 | 1-216-115-00 | METAL GLAZE 560K | 5% 1/10W |
| R1482 | 1-216-089-91 | METAL GLAZE 47K | 5% 1/10W |
| R1483 | 1-216-089-91 | METAL GLAZE 47K | 5% 1/10W |
| R1484 | 1-216-081-00 | METAL GLAZE 22K | 5% 1/10W |
| R1485 | 1-216-113-00 | METAL GLAZE 470K | 5% 1/10W |
| R1486 | 1-216-097-91 | METAL GLAZE 100K | 5% 1/10W |
| R1487 | 1-216-097-91 | METAL GLAZE 100K | 5% 1/10W |
| R1488 | 1-216-083-00 | METAL GLAZE 27K | 5% 1/10W |
| R1489 | 1-216-069-00 | METAL GLAZE 6.8K | 5% 1/10W |
| R1490 | 1-216-035-00 | METAL GLAZE 270 | 5% 1/10W |
| R1491 | 1-216-035-00 | METAL GLAZE 270 | 5% 1/10W |
| R1492 | 1-216-035-00 | METAL GLAZE 270 | 5% 1/10W |
| R1493 | 1-216-083-00 | METAL GLAZE 27K | 5% 1/10W |
| R1494 | 1-216-081-00 | METAL GLAZE 22K | 5% 1/10W |
| R1495 | 1-216-089-91 | METAL GLAZE 47K | 5% 1/10W |
| R1496 | 1-216-089-91 | METAL GLAZE 47K | 5% 1/10W |
| R1498 | 1-216-057-00 | METAL GLAZE 2.2K | 5% 1/10W |
| R1499 | 1-216-057-00 | METAL GLAZE 2.2K | 5% 1/10W |
| R1500 | 1-216-647-11 | METAL CHIP 680 | 0.50% 1/10W |
| R1501 | 1-216-075-00 | METAL GLAZE 12K | 5% 1/10W |
| R1502 | 1-260-105-11 | CARBON 3.3K | 5% 1/2W |
| R1503 | 1-216-063-91 | METAL GLAZE 3.9K | 5% 1/10W |
| R1504 | 1-216-686-11 | METAL CHIP 30K | 0.50% 1/10W |
| R1505 | 1-247-688-11 | CARBON 10 | 5% 1/4W F |
| R1506 | 1-216-033-00 | METAL GLAZE 220 | 5% 1/10W |
| R1507 | 1-216-065-00 | METAL GLAZE 4.7K | 5% 1/10W |

| REF. NO. | PART NO. | DESCRIPTION | REMARK |
|----------|--------------|------------------|--------------------------|
| R1508 | 1-216-083-00 | METAL GLAZE 27K | 5% 1/10W |
| R1509 | 1-216-093-00 | METAL GLAZE 68K | 5% 1/10W |
| R1510 | 1-216-077-00 | METAL GLAZE 15K | 5% 1/10W |
| R1511 | 1-216-360-11 | METAL OXIDE 8.2 | 5% 1W F |
| R1512 | 1-216-647-11 | METAL CHIP 680 | 0.50% 1/10W |
| R1513 | 1-247-752-11 | CARBON 1K | 5% 1/2W F |
| R1514 | 1-247-711-11 | CARBON 680 | 5% 1/4W F |
| R1515 | 1-216-350-11 | METAL OXIDE 1.2 | 5% 1W F |
| R1516 | 1-216-101-00 | METAL GLAZE 150K | 5% 1/10W |
| R1517 | 1-216-109-00 | METAL GLAZE 330K | 5% 1/10W |
| R1518 | 1-215-867-00 | METAL OXIDE 470 | 5% 1W F |
| R1519 | 1-216-355-11 | METAL OXIDE 3.3 | 5% 1W F |
| R1520 | 1-216-027-00 | METAL GLAZE 120 | 5% 1/10W |
| R1521 | 1-216-029-00 | METAL GLAZE 150 | 5% 1/10W |
| R1523 | 1-216-350-11 | METAL OXIDE 1.2 | 5% 1W F |
| R1524 | 1-216-427-00 | METAL OXIDE 120 | 5% 1W F |
| R1525 | 1-216-083-00 | METAL GLAZE 27K | 5% 1/10W |
| R1526 | 1-216-089-91 | METAL GLAZE 47K | 5% 1/10W |
| R1527 | 1-249-413-11 | CARBON 470 | 5% 1/4W F |
| R1528 | 1-215-869-11 | METAL OXIDE 1K | 5% 1W F |
| R1529 | 1-202-829-11 | SOLID 8.2K | 20% 1/2W |
| R1530 | 1-216-115-00 | METAL GLAZE 560K | 5% 1/10W |
| R1531 | 1-247-697-11 | CARBON 56 | 5% 1/4W F |
| R1532 | 1-216-059-00 | METAL GLAZE 2.7K | 5% 1/10W |
| R1533 | 1-249-414-11 | CARBON 560 | 5% 1/4W F |
| R1534 | 1-216-659-11 | METAL CHIP 2.2K | 0.50% 1/10W |
| R1536 | ☒ | METAL CHIP | 1/10W |
| R1537 | 1-249-389-11 | CARBON 4.7 | 5% 1/4W F |
| R1538 | 1-216-073-00 | METAL GLAZE 10K | 5% 1/10W |
| R1539 | 1-216-097-91 | METAL GLAZE 100K | 5% 1/10W (14M4U/E/A) |
| R1540 | 1-216-105-91 | METAL GLAZE 220K | 5% 1/10W |
| R1541 | 1-216-081-00 | METAL GLAZE 22K | 5% 1/10W |
| R1542 | 1-247-692-71 | CARBON 22 | 5% 1/4W F (14M4U/E/A) |
| R1543 | 1-216-027-00 | METAL GLAZE 120 | 5% 1/10W |
| R1547 | 1-216-393-00 | METAL OXIDE 2.2 | 5% 3W F |
| R1548 | 1-216-057-00 | METAL GLAZE 2.2K | 5% 1/10W |
| R1549 | 1-260-094-11 | CARBON 390 | 5% 1/2W |
| R1550 | 1-216-105-91 | METAL GLAZE 220K | 5% 1/10W |
| R1551 | 1-249-393-11 | CARBON 10 | 5% 1/4W F |
| R1552 | 1-216-091-00 | METAL GLAZE 56K | 5% 1/10W |
| R1553 | 1-216-091-00 | METAL GLAZE 56K | 5% 1/10W |
| R1554 | 1-216-059-00 | METAL GLAZE 2.7K | 5% 1/10W |
| R1555 | 1-216-295-91 | CONDUCTOR, CHIP | |
| R1556 | 1-216-071-00 | METAL GLAZE 8.2K | 5% 1/10W |
| R1557 | 1-218-760-11 | METAL CHIP 220K | 0.50% 1/10W |
| R1558 | 1-249-393-11 | CARBON 10 | 5% 1/4W F |
| R1559 | 1-249-393-11 | CARBON 10 | 5% 1/4W F |
| R1560 | 1-216-049-91 | METAL GLAZE 1K | 5% 1/10W |
| R1567 | 1-216-089-91 | METAL GLAZE 47K | 5% 1/10W |
| R1568 | 1-216-081-00 | METAL GLAZE 22K | 5% 1/10W |
| R1569 | 1-216-073-00 | METAL GLAZE 10K | 5% 1/10W |
| R1570 | 1-216-073-00 | METAL GLAZE 10K | 5% 1/10W |
| R1571 | 1-216-103-00 | METAL GLAZE 180K | 5% 1/10W |
| R1572 | 1-216-101-00 | METAL GLAZE 150K | 5% 1/10W |
| R1573 | 1-216-073-00 | METAL GLAZE 10K | 5% 1/10W |
| R1574 | 1-216-041-00 | METAL GLAZE 470 | 5% 1/10W |
| R1575 | 1-216-025-91 | METAL GLAZE 100 | 5% 1/10W |
| R1576 | 1-216-025-91 | METAL GLAZE 100 | 5% 1/10W |
| R1577 | 1-216-025-91 | METAL GLAZE 100 | 5% 1/10W |
| R1578 | 1-216-065-00 | METAL GLAZE 4.7K | 5% 1/10W |
| R1579 | 1-216-689-11 | METAL CHIP 39K | 0.50% 1/10W |
| R1580 | 1-216-089-91 | METAL GLAZE 47K | 5% 1/10W (14M4U/E/A) |
| R1581 | 1-208-612-11 | METAL OXIDE 10M | 5% 1W (14M4U/E/A) |
| R1582 | 1-208-610-11 | METAL OXIDE 2M | 5% 1W (14M4U/E/A) |
| R1583 | 1-212-998-00 | FUSIBLE 470 | 5% 1/2W F (14M4U/E/A) |



| REF. NO. | PART NO. | DESCRIPTION | REMARK | REF. NO. | PART NO. | DESCRIPTION | REMARK |
|----------|--------------|------------------|----------------------|----------|--------------|------------------|----------------------|
| R1589 | 1-216-387-11 | METAL OXIDE 0.68 | 5% 3W F | R2367 | 1-216-099-00 | METAL GLAZE 120K | 5% 1/10W |
| R1595 | 1-216-101-00 | METAL GLAZE 150K | 5% 1/10W | R2368 | 1-216-065-00 | METAL GLAZE 4.7K | 5% 1/10W |
| R1596 | 1-216-073-00 | METAL GLAZE 10K | 5% 1/10W | R2369 | 1-216-675-11 | METAL CHIP 10K | 0.50% 1/10W |
| R1597 | 1-216-073-00 | METAL GLAZE 10K | 5% 1/10W | R2371 | 1-216-049-91 | METAL GLAZE 1K | 5% 1/10W |
| R1598 | 1-216-057-00 | METAL GLAZE 2.2K | 5% 1/10W | R2372 | 1-216-113-00 | METAL GLAZE 470K | 5% 1/10W |
| R1599 | 1-202-830-00 | SOLID 10K | 20% 1/2W (14M4U/E/A) | R2374 | 1-216-097-91 | METAL GLAZE 100K | 5% 1/10W |
| R2300 | 1-216-065-00 | METAL GLAZE 4.7K | 5% 1/10W | R2375 | 1-216-089-91 | METAL GLAZE 47K | 5% 1/10W |
| R2301 | 1-216-065-00 | METAL GLAZE 4.7K | 5% 1/10W | R2376 | 1-216-089-91 | METAL GLAZE 47K | 5% 1/10W |
| R2302 | 1-216-671-11 | METAL CHIP 6.8K | 0.50% 1/10W | R2377 | 1-216-033-00 | METAL GLAZE 220 | 5% 1/10W |
| R2303 | 1-216-093-00 | METAL GLAZE 68K | 5% 1/10W | R2378 | 1-216-089-91 | METAL GLAZE 47K | 5% 1/10W |
| R2304 | 1-216-105-91 | METAL GLAZE 220K | 5% 1/10W | R2379 | 1-216-033-00 | METAL GLAZE 220 | 5% 1/10W |
| R2305 | 1-216-085-00 | METAL GLAZE 33K | 5% 1/10W | R2380 | 1-216-089-91 | METAL GLAZE 47K | 5% 1/10W |
| R2306 | 1-216-089-91 | METAL GLAZE 47K | 5% 1/10W | R2381 | 1-216-089-91 | METAL GLAZE 47K | 5% 1/10W |
| R2307 | 1-216-033-00 | METAL GLAZE 220 | 5% 1/10W | R2382 | 1-216-089-91 | METAL GLAZE 47K | 5% 1/10W |
| R2308 | 1-216-103-00 | METAL GLAZE 180K | 5% 1/10W | R2383 | 1-216-033-00 | METAL GLAZE 220 | 5% 1/10W |
| R2309 | 1-216-049-91 | METAL GLAZE 1K | 5% 1/10W | R2384 | 1-216-689-11 | METAL GLAZE 39K | 5% 1/10W |
| R2310 | 1-216-095-00 | METAL GLAZE 82K | 5% 1/10W | R2385 | 1-216-073-00 | METAL GLAZE 10K | 5% 1/10W |
| R2311 | 1-216-073-00 | METAL GLAZE 10K | 5% 1/10W | R2386 | 1-216-073-00 | METAL GLAZE 10K | 5% 1/10W |
| R2312 | 1-216-053-00 | METAL GLAZE 1.5K | 5% 1/10W | R2387 | 1-216-073-00 | METAL GLAZE 10K | 5% 1/10W |
| R2313 | 1-216-049-91 | METAL GLAZE 1K | 5% 1/10W | R2388 | 1-216-073-00 | METAL GLAZE 10K | 5% 1/10W |
| R2314 | 1-216-645-11 | METAL CHIP 560 | 0.50% 1/10W | R2389 | 1-216-033-00 | METAL GLAZE 220 | 5% 1/10W |
| R2315 | 1-216-679-11 | METAL CHIP 15K | 0.50% 1/10W | R2390 | 1-216-647-11 | METAL CHIP 680 | 0.50% 1/10W |
| R2316 | 1-216-081-00 | METAL GLAZE 22K | 5% 1/10W | R2391 | 1-216-647-11 | METAL CHIP 680 | 0.50% 1/10W |
| R2317 | 1-216-049-91 | METAL GLAZE 1K | 5% 1/10W | R2392 | 1-216-073-00 | METAL GLAZE 10K | 5% 1/10W |
| R2318 | 1-216-069-00 | METAL GLAZE 6.8K | 5% 1/10W | R2393 | 1-216-073-00 | METAL GLAZE 10K | 5% 1/10W |
| R2319 | 1-216-093-00 | METAL GLAZE 68K | 5% 1/10W | R2394 | 1-216-081-00 | METAL GLAZE 22K | 5% 1/10W |
| R2320 | 1-216-677-11 | METAL CHIP 12K | 0.50% 1/10W | R2396 | 1-216-041-00 | METAL GLAZE 470 | 5% 1/10W |
| R2321 | 1-216-057-00 | METAL GLAZE 2.2K | 5% 1/10W | R2397 | 1-216-113-00 | METAL GLAZE 470K | 5% 1/10W |
| R2322 | 1-216-065-00 | METAL GLAZE 4.7K | 5% 1/10W | R2398 | 1-216-109-00 | METAL GLAZE 330K | 5% 1/10W |
| R2323 | 1-216-683-11 | METAL CHIP 22K | 0.50% 1/10W | R2399 | 1-216-073-00 | METAL GLAZE 10K | 5% 1/10W |
| R2324 | 1-216-073-00 | METAL GLAZE 10K | 5% 1/10W | R2501 | 1-216-083-00 | METAL GLAZE 27K | 5% 1/10W |
| R2325 | 1-216-063-91 | METAL GLAZE 3.9K | 5% 1/10W | R2502 | 1-216-081-00 | METAL GLAZE 22K | 5% 1/10W |
| R2326 | 1-216-041-00 | METAL GLAZE 470 | 5% 1/10W | R2503 | 1-216-089-91 | METAL GLAZE 47K | 5% 1/10W |
| R2327 | 1-216-059-00 | METAL GLAZE 2.7K | 5% 1/10W | R2504 | 1-216-097-91 | METAL GLAZE 100K | 5% 1/10W |
| R2328 | 1-216-049-91 | METAL GLAZE 1K | 5% 1/10W | R2504 | 1-216-101-00 | METAL GLAZE 150K | 5% (14M2U/E/A) 1/10W |
| R2329 | 1-216-059-00 | METAL GLAZE 2.7K | 5% 1/10W | R2551 | 1-216-091-00 | METAL GLAZE 56K | 5% (14M4U/E/A) 1/10W |
| R2330 | 1-216-049-91 | METAL GLAZE 1K | 5% 1/10W | R2552 | 1-216-085-00 | METAL GLAZE 33K | 5% 1/10W |
| R2331 | 1-216-059-00 | METAL GLAZE 2.7K | 5% 1/10W | R2553 | 1-216-083-00 | METAL GLAZE 27K | 5% 1/10W |
| R2332 | 1-216-049-91 | METAL GLAZE 1K | 5% 1/10W | R2555 | 1-216-055-00 | METAL GLAZE 1.8K | 5% 1/10W |
| R2333 | 1-216-089-91 | METAL GLAZE 47K | 5% 1/10W | R2556 | 1-216-051-00 | METAL GLAZE 1.2K | 5% 1/10W |
| R2334 | 1-216-041-00 | METAL GLAZE 470 | 5% 1/10W | R2557 | 1-216-067-00 | METAL GLAZE 5.6K | 5% 1/10W |
| R2335 | 1-216-061-00 | METAL GLAZE 3.3K | 5% 1/10W | R2558 | 1-216-057-00 | METAL GLAZE 2.2K | 5% 1/10W |
| R2336 | 1-216-065-00 | METAL GLAZE 4.7K | 5% 1/10W | R2559 | 1-216-039-00 | METAL GLAZE 390 | 5% 1/10W |
| R2337 | 1-216-037-00 | METAL GLAZE 330 | 5% 1/10W | R2560 | 1-216-069-00 | METAL GLAZE 6.8K | 5% 1/10W |
| R2338 | 1-216-073-00 | METAL GLAZE 10K | 5% 1/10W | R2561 | 1-216-001-00 | METAL GLAZE 10 | 5% 1/10W |
| R2339 | 1-216-037-00 | METAL GLAZE 330 | 5% 1/10W | R2562 | 1-216-001-00 | METAL GLAZE 10 | 5% 1/10W |
| R2340 | 1-216-073-00 | METAL GLAZE 10K | 5% 1/10W | R2563 | 1-249-421-11 | CARBON 2.2K | 5% 1/4W |
| R2341 | 1-216-037-00 | METAL GLAZE 330 | 5% 1/10W | R3301 | 1-216-073-00 | METAL GLAZE 10K | 5% 1/10W |
| R2342 | 1-216-071-00 | METAL GLAZE 8.2K | 5% 1/10W | R3302 | 1-216-065-00 | METAL GLAZE 4.7K | 5% 1/10W |
| R2343 | 1-216-081-00 | METAL GLAZE 22K | 5% 1/10W | R3303 | 1-216-065-00 | METAL GLAZE 4.7K | 5% 1/10W |
| R2344 | 1-216-121-91 | METAL GLAZE 1M | 5% 1/10W | R3304 | 1-216-065-00 | METAL GLAZE 4.7K | 5% 1/10W |
| R2345 | 1-216-681-11 | METAL CHIP 18K | 0.50% 1/10W | R3305 | 1-216-061-00 | METAL GLAZE 3.3K | 5% 1/10W |
| R2346 | 1-216-061-00 | METAL GLAZE 3.3K | 5% 1/10W | R3306 | 1-216-063-91 | METAL GLAZE 3.9K | 5% 1/10W |
| R2347 | 1-216-061-00 | METAL GLAZE 3.3K | 5% 1/10W | R3308 | 1-216-097-91 | METAL GLAZE 100K | 5% 1/10W |
| R2348 | 1-216-061-00 | METAL GLAZE 3.3K | 5% 1/10W | R3309 | 1-216-073-00 | METAL GLAZE 10K | 5% 1/10W |
| R2349 | 1-216-679-11 | METAL CHIP 15K | 0.50% 1/10W | R3310 | 1-216-049-91 | METAL GLAZE 1K | 5% 1/10W |
| R2350 | 1-216-061-00 | METAL GLAZE 3.3K | 5% 1/10W | R3311 | 1-216-091-00 | METAL GLAZE 56K | 5% 1/10W |
| R2351 | 1-216-061-00 | METAL GLAZE 3.3K | 5% 1/10W | R3312 | 1-216-105-91 | METAL GLAZE 220K | 5% 1/10W |
| R2352 | 1-216-061-00 | METAL GLAZE 3.3K | 5% 1/10W | R3317 | 1-216-675-11 | METAL CHIP 10K | 0.50% 1/10W |
| R2353 | 1-216-041-00 | METAL GLAZE 470 | 5% 1/10W | R3320 | 1-216-085-00 | METAL GLAZE 33K | 5% 1/10W |
| R2354 | 1-216-025-91 | METAL GLAZE 100 | 5% 1/10W | R3323 | 1-216-089-91 | METAL GLAZE 47K | 5% 1/10W |
| R2357 | 1-216-091-00 | METAL GLAZE 56K | 5% 1/10W | R3333 | 1-216-113-00 | METAL GLAZE 470K | 5% 1/10W |
| R2358 | 1-216-025-91 | METAL GLAZE 100 | 5% 1/10W | R3334 | 1-216-073-00 | METAL GLAZE 10K | 5% 1/10W |
| R2361 | 1-216-099-00 | METAL GLAZE 120K | 5% 1/10W | R3335 | 1-216-113-00 | METAL GLAZE 470K | 5% 1/10W |
| R2362 | 1-216-081-00 | METAL GLAZE 22K | 5% 1/10W | R3337 | 1-216-099-00 | METAL GLAZE 120K | 5% 1/10W |
| R2363 | 1-216-065-00 | METAL GLAZE 4.7K | 5% 1/10W | R3338 | 1-216-103-00 | METAL GLAZE 180K | 5% 1/10W |
| R2364 | 1-216-025-91 | METAL GLAZE 100 | 5% 1/10W | R3339 | 1-216-093-00 | METAL GLAZE 68K | 5% 1/10W |
| R2365 | 1-216-687-11 | METAL CHIP 33K | 0.50% 1/10W | | | | |
| R2366 | 1-216-067-00 | METAL GLAZE 5.6K | 5% 1/10W | | | | |



Les composants identifiés par une trame et une marque Δ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

The components identified by shading and mark Δ are critical for safety. Replace only with part number specified.

| REF. NO. | PART NO. | DESCRIPTION | REMARK |
|---------------------|-----------------------|--|-------------|
| R3340 | 1-216-099-00 | METAL GLAZE 120K | 5% 1/10W |
| R3344 | 1-216-081-00 | METAL GLAZE 22K | 5% 1/10W |
| R3345 | 1-216-033-00 | METAL GLAZE 220 | 5% 1/10W |
| R3346 | 1-216-025-91 | METAL GLAZE 100 | 5% 1/10W |
| R3347 | 1-216-025-91 | METAL GLAZE 100 | 5% 1/10W |
| R3348 | 1-216-025-91 | METAL GLAZE 100 | 5% 1/10W |
| R3349 | 1-216-025-91 | METAL GLAZE 100 | 5% 1/10W |
| R3350 | 1-216-113-00 | METAL GLAZE 470K | 5% 1/10W |
| R3351 | 1-216-119-00 | METAL GLAZE 820K | 5% 1/10W |
| R3355 | 1-216-089-91 | METAL GLAZE 47K | 5% 1/10W |
| R3356 | 1-216-051-00 | METAL GLAZE 1.2K | 5% 1/10W |
| R3357 | 1-216-051-00 | METAL GLAZE 1.2K | 5% 1/10W |
| R3358 | 1-216-051-00 | METAL GLAZE 1.2K | 5% 1/10W |
| R3359 | 1-216-081-00 | METAL GLAZE 22K | 5% 1/10W |
| R3360 | 1-216-073-00 | METAL GLAZE 10K | 5% 1/10W |
| R3361 | 1-216-089-91 | METAL GLAZE 47K | 5% 1/10W |
| R3362 | 1-216-049-91 | METAL GLAZE 1K | 5% 1/10W |
| R3363 | 1-216-049-91 | METAL GLAZE 1K | 5% 1/10W |
| R3364 | 1-216-073-00 | METAL GLAZE 10K | 5% 1/10W |
| R3376 | 1-216-081-00 | METAL GLAZE 22K | 5% 1/10W |
| R3377 | 1-216-107-00 | METAL GLAZE 270K | 5% 1/10W |
| R3378 | 1-216-115-00 | METAL GLAZE 560K | 5% 1/10W |
| R3381 | 1-216-041-00 | METAL GLAZE 470 | 5% 1/10W |
| R3382 | 1-216-645-11 | METAL CHIP 560 | 0.50% 1/10W |
| R3383 | 1-216-069-00 | METAL GLAZE 6.8K | 5% 1/10W |
| R3384 | 1-216-063-91 | METAL GLAZE 3.9K | 5% 1/10W |
| R3385 | 1-216-057-00 | METAL GLAZE 2.2K | 5% 1/10W |
| R3386 | 1-216-057-00 | METAL GLAZE 2.2K | 5% 1/10W |
| R3390 | 1-216-057-00 | METAL GLAZE 2.2K | 5% 1/10W |
| R3394 | 1-216-089-91 | METAL GLAZE 47K | 5% 1/10W |
| R3395 | 1-216-049-91 | METAL GLAZE 1K | 5% 1/10W |
| R3396 | 1-216-041-00 | METAL GLAZE 470 | 5% 1/10W |
| R3398 | 1-216-685-11 | METAL CHIP 27K | 0.50% 1/10W |
| R4401 | 1-216-085-00 | METAL GLAZE 33K | 5% 1/10W |
| R4402 | 1-216-113-00 | METAL GLAZE 470K | 5% 1/10W |
| R4404 | 1-216-073-00 | METAL GLAZE 10K | 5% 1/10W |
| R4405 | 1-216-067-00 | METAL GLAZE 5.6K | 5% 1/10W |
| R4407 | 1-216-061-00 | METAL GLAZE 3.3K | 5% 1/10W |
| R4408 | 1-216-059-00 | METAL GLAZE 2.7K | 5% 1/10W |
| R4409 | 1-216-059-00 | METAL GLAZE 2.7K | 5% 1/10W |
| R4410 | 1-216-059-00 | METAL GLAZE 2.7K | 5% 1/10W |
| R4411 | 1-216-113-00 | METAL GLAZE 470K | 5% 1/10W |
| R4412 | 1-216-113-00 | METAL GLAZE 470K | 5% 1/10W |
| R4413 | 1-216-295-91 | CONDUCTOR, CHIP | |
| R4414 | 1-216-295-91 | CONDUCTOR, CHIP | |
| R4415 | 1-216-295-91 | CONDUCTOR, CHIP | |
| R4416 | 1-216-295-91 | CONDUCTOR, CHIP | |
| <VARIABLE RESISTOR> | | | |
| RV501 | 1-223-102-00 | RES, ADJ, WIREWOUND 120 | |
| <TRANSFORMER> | | | |
| T300 | 1-406-781-11 | COIL | |
| T500 | 1-426-668-11 | TRANSFORMER, FERRITE (HDT) | |
| T501 | Δ 1-453-233-11 | TRANSFORMER ASSY, FLYBACK (14M4U/E/A) | |
| T501 | Δ 1-453-232-11 | TRANSFORMER ASSY, FLYBACK (14M2U/E/A) | |
| T501 | * 4-058-301-01 | RING, SHORT | |
| T501 | 7-685-663-79 | SCREW +BVTP 4X16 TYPE2 IT-3 | |
| T502 | 1-413-059-00 | TRANSFORMER, FERRITE (DFT) (14M4U/E/A) | |
| <THERMISTOR> | | | |
| TH500 | 1-807-970-11 | THERMISTOR | |

| REF. NO. | PART NO. | DESCRIPTION | REMARK |
|---|----------------|----------------------|--------|
| <TEST PIN> | | | |
| TP300 | * 1-535-877-22 | CHIP, CHECKER | |
| TP301 | * 1-535-877-22 | CHIP, CHECKER | |
| TP305 | * 1-535-877-22 | CHIP, CHECKER | |
| TP306 | * 1-535-877-22 | CHIP, CHECKER | |
| TP307 | * 1-535-877-22 | CHIP, CHECKER | |
| TP311 | * 1-535-877-22 | CHIP, CHECKER | |
| TP312 | * 1-535-877-22 | CHIP, CHECKER | |
| TP401 | * 1-535-877-22 | CHIP, CHECKER | |
| TP402 | * 1-535-877-22 | CHIP, CHECKER | |
| TP403 | * 1-535-877-22 | CHIP, CHECKER | |
| TP501 | * 1-535-877-22 | CHIP, CHECKER | |
| TP502 | * 1-535-877-22 | CHIP, CHECKER | |
| TP503 | * 1-535-877-22 | CHIP, CHECKER | |
| TP504 | * 1-535-877-22 | CHIP, CHECKER | |
| <CRYSTAL> | | | |
| X101 | 1-579-175-11 | VIBRATOR, CERAMIC | |
| X300 | 1-577-259-11 | VIBRATOR, CRYSTAL | |
| X300 | 3-741-396-01 | INSULATOR | |
| X301 | 1-527-722-00 | VIBRATOR, CRYSTAL | |
| X301 | 3-741-396-01 | INSULATOR | |
| ***** | | | |
| * A-1316-302-A G BOARD, COMPLETE ***** | | | |
| 1-533-223-11 HOLDER, FUSE | | | |
| * 4-374-846-11 COVER, CAPACITOR, CAP TYPE | | | |
| 4-382-854-11 SCREW (M3X10), P, SW (+) | | | |
| 7-322-065-19 RUBBER, SILICON RTV (KE490W) | | | |
| <CAPACITOR> | | | |
| C602 | 1-130-711-00 | FILM 0.22MF 20% | 250V |
| C603 | 1-130-711-00 | FILM 0.22MF 20% | 250V |
| C604 | 1-113-924-11 | CERAMIC 0.0047MF 20% | 250V |
| C605 | 1-113-924-11 | CERAMIC 0.0047MF 20% | 250V |
| C606 | 1-113-924-11 | CERAMIC 0.0047MF 20% | 250V |
| C607 | 1-113-924-11 | CERAMIC 0.0047MF 20% | 250V |
| C608 | 1-113-924-11 | CERAMIC 0.0047MF 20% | 250V |
| C609 | 1-113-924-11 | CERAMIC 0.0047MF 20% | 250V |
| C610 | 1-113-924-11 | CERAMIC 0.0047MF 20% | 250V |
| C611 | 1-113-924-11 | CERAMIC 0.0047MF 20% | 250V |
| C612 | 1-137-484-11 | FILM 0.47MF 10% | 630V |
| C613 | 1-137-484-11 | FILM 0.47MF 10% | 630V |
| C614 | 1-129-718-00 | FILM 0.022MF 10% | 630V |
| C615 | 1-136-619-11 | FILM 0.0016MF 3% | 2KV |
| C616 | 1-107-909-11 | ELECT 47MF 20% | 35V |
| C617 | 1-107-430-91 | CERAMIC 0.0033MF 10% | 1KV |
| C618 | 1-107-906-11 | ELECT 10MF 20% | 50V |
| C619 | 1-107-911-11 | ELECT 220MF 20% | 50V |
| C621 | 1-117-791-11 | ELECT 1000MF 20% | 160V |
| C622 | 1-102-038-00 | CERAMIC 0.001MF | 500V |
| C623 | 1-107-900-51 | ELECT 4700MF 20% | 35V |
| C624 | 1-102-038-00 | CERAMIC 0.001MF | 500V |
| C625 | 1-107-900-51 | ELECT 4700MF 20% | 35V |
| C626 | 1-102-038-00 | CERAMIC 0.001MF | 500V |
| C627 | 1-107-900-51 | ELECT 4700MF 20% | 35V |
| C628 | 1-102-038-00 | CERAMIC 0.001MF | 500V |
| C629 | 1-107-891-11 | ELECT 3300MF 20% | 25V |
| C630 | 1-126-964-11 | ELECT 10MF 20% | 50V |
| C631 | 1-136-853-11 | FILM 0.56MF 5% | 200V |
| C632 | 1-107-492-11 | ELECT 47MF 20% | 160V |
| C633 | 1-107-885-11 | ELECT 3300MF 20% | 16V |
| C634 | 1-107-911-11 | ELECT 220MF 20% | 50V |
| C636 | 1-107-909-11 | ELECT 47MF 20% | 50V |
| C637 | 1-107-910-11 | ELECT 100MF 20% | 50V |



| REF. NO. | PART NO. | DESCRIPTION | REMARK |
|-----------------|----------------|-------------------------------|--------|
| C638 | 1-137-484-11 | FILM 0.47MF 10% | 630V |
| C2601 | 1-102-038-00 | CERAMIC 0.001MF | 500V |
| <CONNECTOR> | | | |
| CN601 | * 1-580-689-11 | PIN, CONNECTOR (PC BOARD) 4P | |
| CN602 | * 1-695-561-11 | PIN, CONNECTOR (PC BOARD) 7P | |
| CN603 | * 1-508-765-00 | PIN, CONNECTOR (5mm PITCH) 3P | |
| CN605 | * 1-573-964-11 | PIN, CONNECTOR (PC BOARD) 6P | |
| CN606 | * 1-564-506-11 | PLUG, CONNECTOR 3P | |
| CN607 | * 1-564-509-11 | PLUG, CONNECTOR 6P | |
| CN609 | 1-508-786-00 | PIN, CONNECTOR (5mm PITCH) 2P | |
| <DIODE> | | | |
| D601 | 8-719-510-53 | DIODE D4SB60L | |
| D605 | 8-719-979-85 | DIODE EGP20G | |
| D606 | 8-719-988-55 | DIODE RGP15K-6179 | |
| D607 | 8-719-300-33 | DIODE RU-3AM | |
| D608 | 8-719-911-19 | DIODE 1SS119-25 | |
| D609 | 8-719-300-33 | DIODE RU-3AM | |
| D610 | 8-719-029-04 | DIODE D5L60 | |
| D612 | 8-719-045-48 | DIODE FML-G12S | |
| D613 | 8-719-979-85 | DIODE EGP20G | |
| D614 | 8-719-045-48 | DIODE FML-G12S | |
| D615 | 8-719-979-85 | DIODE EGP20G | |
| D616 | 8-719-054-32 | DIODE ERA15-06 | |
| D617 | 8-719-110-44 | DIODE RD16ESB1 | |
| D618 | 8-719-979-85 | DIODE EGP20G | |
| <FERRITE BEAD> | | | |
| FB601 | 1-410-396-41 | FERRITE BEAD INDUCTOR 0.45UH | |
| FB602 | 1-410-396-41 | FERRITE BEAD INDUCTOR 0.45UH | |
| FB603 | 1-410-396-41 | FERRITE BEAD INDUCTOR 0.45UH | |
| FB604 | 1-410-396-41 | FERRITE BEAD INDUCTOR 0.45UH | |
| FB605 | 1-410-396-41 | FERRITE BEAD INDUCTOR 0.45UH | |
| FB606 | 1-410-396-41 | FERRITE BEAD INDUCTOR 0.45UH | |
| FB607 | 1-410-396-41 | FERRITE BEAD INDUCTOR 0.45UH | |
| FB608 | 1-410-397-21 | FERRITE BEAD INDUCTOR 1.1UH | |
| FB609 | 1-410-397-21 | FERRITE BEAD INDUCTOR 1.1UH | |
| FB610 | 1-410-397-21 | FERRITE BEAD INDUCTOR 1.1UH | |
| FB611 | 1-410-397-21 | FERRITE BEAD INDUCTOR 1.1UH | |
| FB612 | 1-410-397-21 | FERRITE BEAD INDUCTOR 1.1UH | |
| FB613 | 1-410-397-21 | FERRITE BEAD INDUCTOR 1.1UH | |
| <IC> | | | |
| IC601 | 4-058-250-01 | SHEET, INSULATING | |
| IC601 | 8-749-925-03 | IC STR-M6524 | |
| IC602 | 8-749-010-47 | IC STR-S3115 | |
| IC603 | 8-759-701-56 | IC NJM78M05FA | |
| IC604 | 8-759-231-53 | IC TA7805S | |
| IC605 | 8-759-231-58 | IC TA7812S | |
| <COIL> | | | |
| L601 | 1-411-215-11 | COIL, CHOKE 200UH | |
| L1601 | 1-410-679-31 | INDUCTOR 270UH | |
| L1602 | 1-421-421-00 | COIL, CHOKE | |
| L2601 | 1-459-155-00 | COIL (WITH CORE) 45UH | |
| <PHOTO COUPLER> | | | |
| PH601 | 8-749-923-50 | PHOTO COUPLER PC111YS | |
| <TRANSISTOR> | | | |
| Q601 | 8-729-140-96 | TRANSISTOR 2SD774-34 | |

| REF. NO. | PART NO. | DESCRIPTION | REMARK |
|---------------|--------------|--------------------------------|------------|
| Q603 | 8-729-303-61 | TRANSISTOR 2SC3851-G | |
| <RESISTOR> | | | |
| R601 | 1-202-719-00 | SOLID 1M | 20% 1/2W |
| R602 | 1-216-491-11 | METAL OXIDE 56K | 5% 3W F |
| R603 | 1-216-490-11 | METAL OXIDE 39K | 5% 3W F |
| R604 | 1-249-418-11 | CARBON 1.2K | 5% 1/4W |
| R605 | 1-249-415-11 | CARBON 680 | 5% 1/4W |
| R606 | 1-207-642-00 | WIREWOUND 0.15 | 10% 3W F |
| R607 | 1-249-426-11 | CARBON 5.6K | 5% 1/4W |
| R608 | 1-249-428-11 | CARBON 8.2K | 5% 1/4W |
| R609 | 1-249-428-11 | CARBON 8.2K | 5% 1/4W |
| R610 | 1-249-428-11 | CARBON 8.2K | 5% 1/4W |
| R611 | 1-249-417-11 | CARBON 1K | 5% 1/4W F |
| R612 | 1-249-404-00 | CARBON 82 | 5% 1/4W |
| R613 | 1-249-419-11 | CARBON 1.5K | 5% 1/4W |
| R614 | 1-249-385-11 | CARBON 2.2 | 5% 1/4W F |
| R615 | 1-202-727-00 | SOLID 4.7M | 10% 1/2W |
| R617 | 1-202-933-61 | FUSIBLE 0.1 | 10% 1/2W F |
| R618 | 1-202-933-61 | FUSIBLE 0.1 | 10% 1/2W F |
| R619 | 1-202-933-61 | FUSIBLE 0.1 | 10% 1/2W F |
| R620 | 1-202-933-61 | FUSIBLE 0.1 | 10% 1/2W F |
| R621 | 1-215-877-11 | METAL OXIDE 22K | 5% 1W F |
| R622 | 1-249-401-11 | CARBON 47 | 5% 1/4W F |
| R623 | 1-249-417-11 | CARBON 1K | 5% 1/4W |
| R626 | 1-247-895-91 | CARBON 470K | 5% 1/4W |
| R627 | 1-216-490-11 | METAL OXIDE 39K | 5% 3W F |
| R628 | 1-216-491-11 | METAL OXIDE 56K | 5% 3W F |
| R629 | 1-202-727-00 | SOLID 4.7M | 10% 1/2W |
| R630 | 1-216-490-11 | METAL OXIDE 39K | 5% 3W F |
| R631 | 1-249-412-11 | CARBON 390 | 5% 1/4W F |
| R632 | 1-249-401-11 | CARBON 47 | 5% 1/4W F |
| R1602 | 1-202-842-11 | SOLID 220K | 20% 1/2W |
| R1603 | 1-202-842-11 | SOLID 220K | 20% 1/2W |
| <RELAY> | | | |
| RY601 | 1-515-738-11 | RELAY | |
| <TRANSFORMER> | | | |
| T601 | 1-426-716-11 | TRANSFORMER, LINE FILTER (LFT) | |
| T602 | 1-426-716-11 | TRANSFORMER, LINE FILTER (LFT) | |
| T603 | 1-431-245-11 | TRANSFORMER, CONVERTER (SRT) | |
| <THERMISTOR> | | | |
| THP601 | 1-808-059-31 | THERMISTOR, POSITIVE | |
| <TEST PIN> | | | |
| TP1601 | 1-536-354-00 | POST PIN | |
| <VARISTOR> | | | |
| VDR601 | 1-809-942-71 | VARISTOR | |
| VDR602 | 1-809-942-71 | VARISTOR | |



| REF. NO. | PART NO. | DESCRIPTION | REMARK |
|----------|----------------|----------------------------------|-----------------|
| | * A-1331-627-A | C BOARD, COMPLETE ***** | (PVM-14M4U/E/A) |
| | * A-1331-631-A | C BOARD, COMPLETE ***** | (PVM-14M2U/E/A) |
| | 7-682-949-01 | SCREW +PSW 3X10 | |
| | <CAPACITOR> | | |
| C701 | 1-102-157-00 | CERAMIC 560PF 10% 500V | |
| C702 | 1-102-157-00 | CERAMIC 560PF 10% 500V | |
| C703 | 1-102-157-00 | CERAMIC 560PF 10% 500V | |
| C704 | 1-102-121-00 | CERAMIC 0.0022MF 10% 50V | |
| C705 | 1-104-665-11 | ELECT 100MF 20% 16V | |
| C706 | 1-102-074-00 | CERAMIC 0.001MF 10% 50V | |
| C707 | 1-162-116-00 | CERAMIC 680PF 10% 2KV | |
| C708 | 1-136-601-11 | FILM 0.01MF 5% 630V | |
| C710 | 1-101-880-00 | CERAMIC 47PF 5% 50V | |
| C711 | 1-101-880-00 | CERAMIC 47PF 5% 50V | |
| C712 | 1-101-880-00 | CERAMIC 47PF 5% 50V | |
| C713 | 1-107-651-11 | ELECT 4.7MF 20% 250V | |
| C714 | 1-102-976-00 | CERAMIC 180PF 5% 50V | |
| C715 | 1-102-976-00 | CERAMIC 180PF 5% 50V | |
| C716 | 1-102-976-00 | CERAMIC 180PF 5% 50V | |
| C717 | 1-107-372-11 | MYLAR 0.22MF 10% 200V | |
| C718 | 1-107-372-11 | MYLAR 0.22MF 10% 200V | |
| C720 | 1-106-383-00 | MYLAR 0.047MF 10% 200V | |
| C734 | 1-102-973-00 | CERAMIC 100PF 5% 50V | |
| C735 | 1-102-816-00 | CERAMIC 120PF 5% 50V | |
| C736 | 1-102-816-00 | CERAMIC 120PF 5% 50V | |
| C740 | 1-162-114-00 | CERAMIC 0.0047MF 2KV | (14M4U/E/A) |
| | <CONNECTOR> | | |
| CN701 | * 1-564-511-11 | PLUG, CONNECTOR 8P | |
| CN702 | * 1-573-964-11 | PIN, CONNECTOR (PC BOARD) 6P | |
| CN703 | 1-695-915-11 | TAB (CONTACT) | |
| CN704 | 1-695-915-11 | TAB (CONTACT) (14M4U/E/A) | |
| | <DIODE> | | |
| D701 | 8-719-911-19 | DIODE 1SS119-25 | |
| D702 | 8-719-911-19 | DIODE 1SS119-25 | |
| D703 | 8-719-911-19 | DIODE 1SS119-25 | |
| D704 | 8-719-911-19 | DIODE 1SS119-25 | |
| D705 | 8-719-911-19 | DIODE 1SS119-25 | |
| D706 | 8-719-911-19 | DIODE 1SS119-25 | |
| D707 | 8-719-901-83 | DIODE 1SS83 | |
| D708 | 8-719-901-83 | DIODE 1SS83 | |
| D709 | 8-719-901-83 | DIODE 1SS83 | |
| D713 | 8-719-901-83 | DIODE 1SS83 | |
| D715 | 8-719-901-83 | DIODE 1SS83 | |
| D716 | 8-719-901-83 | DIODE 1SS83 | |
| D717 | 8-719-901-83 | DIODE 1SS83 | |
| | <JACK> | | |
| J701 | 1-251-116-11 | SOCKET, PICTURE TUBE (14M4U/E/A) | |
| J701 | 1-526-819-11 | SOCKET, PICTURE TUBE (14M2U/E/A) | |
| | <COIL> | | |
| L701 | 1-410-667-31 | INDUCTOR 22UH | |
| L705 | 1-412-532-11 | INDUCTOR 39UH (14M2U/E/A) | |
| L705 | 1-412-534-31 | INDUCTOR 56UH (14M4U/E/A) | |
| | <TRANSISTOR> | | |
| Q701 | 8-729-119-78 | TRANSISTOR 2SC2785-HFE | |

| REF. NO. | PART NO. | DESCRIPTION | REMARK |
|----------|---------------------|--|--------|
| Q702 | 8-729-119-78 | TRANSISTOR 2SC2785-HFE | |
| Q703 | 8-729-119-78 | TRANSISTOR 2SC2785-HFE | |
| Q704 | 8-729-200-17 | TRANSISTOR 2SA1091-O | |
| Q705 | 8-729-200-17 | TRANSISTOR 2SA1091-O | |
| Q706 | 8-729-200-17 | TRANSISTOR 2SA1091-O | |
| Q710 | 8-729-200-17 | TRANSISTOR 2SA1091-O | |
| Q711 | 8-729-200-17 | TRANSISTOR 2SA1091-O | |
| Q712 | 8-729-200-17 | TRANSISTOR 2SA1091-O | |
| Q713 | 8-729-255-12 | TRANSISTOR 2SC2551-O | |
| Q714 | 8-729-255-12 | TRANSISTOR 2SC2551-O | |
| Q715 | 8-729-119-78 | TRANSISTOR 2SC2785-HFE | |
| Q716 | 8-729-119-78 | TRANSISTOR 2SC2785-HFE | |
| Q717 | 8-729-119-78 | TRANSISTOR 2SC2785-HFE | |
| | <RESISTOR> | | |
| R702 | 1-247-903-00 | CARBON 1M 5% 1/4W | |
| R704 | 1-215-405-00 | METAL 220 1% 1/4W | |
| R705 | 1-215-405-00 | METAL 220 1% 1/4W | |
| R706 | 1-215-405-00 | METAL 220 1% 1/4W | |
| R707 | 1-249-431-11 | CARBON 15K 5% 1/4W | |
| R708 | 1-249-431-11 | CARBON 15K 5% 1/4W | |
| R709 | 1-249-431-11 | CARBON 15K 5% 1/4W | |
| R710 | 1-215-391-00 | METAL 56 1% 1/4W | |
| R711 | 1-215-394-00 | METAL 75 1% 1/4W | |
| R712 | 1-215-392-00 | METAL 62 1% 1/4W | |
| R715 | 1-202-818-00 | SOLID 1K 20% 1/2W | |
| R716 | 1-216-486-00 | METAL OXIDE 8.2K 5% 3W F | |
| R717 | 1-202-818-00 | SOLID 1K 20% 1/2W | |
| R718 | 1-216-486-00 | METAL OXIDE 8.2K 5% 3W F | |
| R719 | 1-202-818-00 | SOLID 1K 20% 1/2W | |
| R720 | 1-216-486-00 | METAL OXIDE 8.2K 5% 3W F | |
| R722 | 1-202-838-00 | SOLID 100K 20% 1/2W (14M4U/E/A) | |
| R722 | 1-202-883-11 | SOLID 680K 20% 1/2W (14M2U/E/A) | |
| R723 | 1-202-838-00 | SOLID 100K 20% 1/2W | |
| R724 | 1-202-842-11 | SOLID 220K 20% 1/2W | |
| R725 | 1-202-719-00 | SOLID 1M 20% 1/2W (14M2U/E/A) | |
| R725 | 1-202-883-11 | SOLID 680K 20% 1/2W (14M4U/E/A) | |
| R731 | 1-247-815-91 | CARBON 220 5% 1/4W | |
| R732 | 1-247-815-91 | CARBON 220 5% 1/4W | |
| R733 | 1-247-815-91 | CARBON 220 5% 1/4W | |
| R734 | 1-249-409-11 | CARBON 220 5% 1/4W F | |
| R735 | 1-249-409-11 | CARBON 220 5% 1/4W F | |
| R736 | 1-249-409-11 | CARBON 220 5% 1/4W F | |
| R737 | 1-247-807-31 | CARBON 100 5% 1/4W | |
| R738 | 1-247-807-31 | CARBON 100 5% 1/4W | |
| R739 | 1-247-807-31 | CARBON 100 5% 1/4W | |
| R740 | 1-249-429-11 | CARBON 10K 5% 1/4W F | |
| R741 | 1-249-429-11 | CARBON 10K 5% 1/4W F | |
| R742 | 1-249-429-11 | CARBON 10K 5% 1/4W F | |
| R744 | 1-249-429-11 | CARBON 10K 5% 1/4W | |
| R745 | 1-249-429-11 | CARBON 10K 5% 1/4W | |
| R746 | 1-215-879-11 | METAL OXIDE 47K 5% 1W F | |
| R747 | 1-247-725-11 | CARBON 10K 5% 1/4W F | |
| R748 | 1-249-923-11 | CARBON 1K 5% 1/4W F | |
| R749 | 1-215-902-11 | METAL OXIDE 47K 5% 2W F | |
| R750 | 1-249-400-11 | CARBON 39 5% 1/4W F | |
| R751 | 1-247-887-00 | CARBON 220K 5% 1/4W | |
| R752 | 1-247-887-00 | CARBON 220K 5% 1/4W | |
| R753 | 1-247-887-00 | CARBON 220K 5% 1/4W | |
| | <VARIABLE RESISTOR> | | |
| RV707 | 1-230-641-11 | RES, ADJ, METAL GLAZE 2.2M (14M2U/E/A) | |
| RV708 | 1-230-619-11 | RES, ADJ, METAL GLAZE 110M (14M2U/E/A) | |

The components identified by shading and mark Δ are critical for safety. Replace only with part number specified.

Les composants identifiés par une trame et une marque Δ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

C H J X S

| REF. NO. | PART NO. | DESCRIPTION | REMARK |
|----------|--------------|---------------------------------------|--------|
| RV708 | 1-241-714-11 | RES, ADJ, METAL FILM 110M (14M4U/E/A) | |
| RV709 | 1-230-641-11 | RES, ADJ, METAL GLAZE 2.2M | |

<SPARK GAP>

| | | | |
|-------|--------------|------------------------|--|
| SG701 | 1-519-422-11 | GAP, SPARK (14M4U/E/A) | |
| SG702 | 1-519-422-11 | GAP, SPARK (14M4U/E/A) | |
| SG703 | 1-519-422-11 | GAP, SPARK (14M4U/E/A) | |
| SG704 | 1-519-422-11 | GAP, SPARK (14M4U/E/A) | |

* A-1372-302-A H BOARD, COMPLETE

* 4-348-208-00 HOLDER, LED

<CONNECTOR>

| | | | |
|-------|----------------|---------------------|--|
| CN105 | * 1-564-527-11 | PLUG, CONNECTOR 12P | |
| CN106 | * 1-564-526-11 | PLUG, CONNECTOR 11P | |

<DIODE>

| | | | |
|-------|--------------|------------------|--|
| D2102 | 8-719-920-05 | DIODE SLP281C-50 | |
| D2103 | 8-719-812-32 | DIODE TLY123 | |
| D2104 | 8-719-991-33 | DIODE 1SS133T-77 | |

<RESISTOR>

| | | | | | |
|-------|--------------|--------|------|----|------|
| R2101 | 1-249-419-11 | CARBON | 1.5K | 5% | 1/4W |
| R2107 | 1-249-430-11 | CARBON | 12K | 5% | 1/4W |
| R2136 | 1-249-414-11 | CARBON | 560 | 5% | 1/4W |
| R2137 | 1-249-414-11 | CARBON | 560 | 5% | 1/4W |
| R2138 | 1-249-414-11 | CARBON | 560 | 5% | 1/4W |
| R2139 | 1-249-414-11 | CARBON | 560 | 5% | 1/4W |
| R2140 | 1-249-414-11 | CARBON | 560 | 5% | 1/4W |
| R2141 | 1-249-414-11 | CARBON | 560 | 5% | 1/4W |
| R2142 | 1-249-414-11 | CARBON | 560 | 5% | 1/4W |
| R2143 | 1-249-414-11 | CARBON | 560 | 5% | 1/4W |
| R2144 | 1-249-414-11 | CARBON | 560 | 5% | 1/4W |
| R2145 | 1-249-414-11 | CARBON | 560 | 5% | 1/4W |
| R2147 | 1-215-427-00 | METAL | 1.8K | 1% | 1/4W |
| R2148 | 1-215-419-00 | METAL | 820 | 1% | 1/4W |
| R2149 | 1-215-414-00 | METAL | 510 | 1% | 1/4W |
| R2150 | 1-215-409-00 | METAL | 330 | 1% | 1/4W |
| R2151 | 1-215-407-00 | METAL | 270 | 1% | 1/4W |
| R2152 | 1-215-404-00 | METAL | 200 | 1% | 1/4W |
| R2153 | 1-215-401-11 | METAL | 150 | 1% | 1/4W |
| R2154 | 1-215-399-00 | METAL | 120 | 1% | 1/4W |
| R2155 | 1-215-397-00 | METAL | 100 | 1% | 1/4W |
| R2156 | 1-215-421-00 | METAL | 1K | 1% | 1/4W |
| R2157 | 1-215-416-00 | METAL | 620 | 1% | 1/4W |
| R2158 | 1-215-410-00 | METAL | 360 | 1% | 1/4W |
| R2159 | 1-215-405-00 | METAL | 220 | 1% | 1/4W |
| R2160 | 1-215-421-00 | METAL | 1K | 1% | 1/4W |

<VARIABLE RESISTOR>

| | | | |
|--------|--------------|----------------------|--|
| RV2101 | 1-241-238-21 | RES, VAR, CARBON 20K | |
| RV2103 | 1-225-385-11 | RES, VAR, CARBON 20K | |
| RV2105 | 1-225-385-11 | RES, VAR, CARBON 20K | |
| RV2109 | 1-225-385-11 | RES, VAR, CARBON 20K | |
| RV2113 | 1-225-385-11 | RES, VAR, CARBON 20K | |
| RV2117 | 1-241-238-21 | RES, VAR, CARBON 20K | |

<SWITCH>

| | | | |
|-------|--------------|-------------------|--|
| S2101 | 1-570-101-41 | SWITCH, KEY BOARD | |
|-------|--------------|-------------------|--|

| REF. NO. | PART NO. | DESCRIPTION | REMARK |
|----------|--------------|-------------------|--------|
| S2102 | 1-570-101-41 | SWITCH, KEY BOARD | |
| S2103 | 1-570-101-41 | SWITCH, KEY BOARD | |
| S2104 | 1-570-101-41 | SWITCH, KEY BOARD | |
| S2105 | 1-570-101-41 | SWITCH, KEY BOARD | |

| | | | |
|-------|--------------|-------------------|--|
| S2106 | 1-570-969-11 | SWITCH, KEY BOARD | |
| S2107 | 1-570-969-11 | SWITCH, KEY BOARD | |
| S2108 | 1-570-101-41 | SWITCH, KEY BOARD | |
| S2109 | 1-570-101-41 | SWITCH, KEY BOARD | |
| S2110 | 1-570-101-41 | SWITCH, KEY BOARD | |

| | | | |
|-------|--------------|-------------------|--|
| S2111 | 1-570-101-41 | SWITCH, KEY BOARD | |
| S2112 | 1-570-101-41 | SWITCH, KEY BOARD | |
| S2113 | 1-570-969-11 | SWITCH, KEY BOARD | |
| S2114 | 1-570-969-11 | SWITCH, KEY BOARD | |

* A-1388-193-A J BOARD, COMPLETE

<CONNECTOR>

| | | | |
|-------|----------------|------------------------------|--|
| CN608 | * 1-695-561-11 | PIN, CONNECTOR (PC BOARD) 7P | |
|-------|----------------|------------------------------|--|

<SWITCH>

| | | | |
|------|-----------------------|---------------------------|--|
| S601 | Δ 1-692-921-11 | SWITCH, PUSH (A.C. POWER) | |
|------|-----------------------|---------------------------|--|

* A-1390-704-A X BOARD, COMPLETE

<CONNECTOR>

| | | | |
|-------|----------------|--------------------|--|
| CN108 | * 1-564-518-11 | PLUG, CONNECTOR 3P | |
|-------|----------------|--------------------|--|

<DIODE>

| | | | |
|------|--------------|--------------------|--|
| D001 | 8-719-023-78 | DIODE SEL3810DLC05 | |
| D002 | 8-719-023-78 | DIODE SEL3810DLC05 | |
| D003 | 8-719-023-78 | DIODE SEL3810DLC05 | |
| D004 | 8-719-023-78 | DIODE SEL3810DLC05 | |

* A-1390-705-A S BOARD, COMPLETE

(PVM-14M2U/14M4U)

<CAPACITOR>

| | | | | | |
|------|--------------|---------|----------|-----|-----|
| C805 | 1-102-978-00 | CERAMIC | 220PF | 5% | 50V |
| C806 | 1-136-165-00 | FILM | 0.1MF | 5% | 50V |
| C807 | 1-130-477-00 | MYLAR | 0.0033MF | 5% | 50V |
| C810 | 1-136-165-00 | FILM | 0.1MF | 5% | 50V |
| C811 | 1-136-165-00 | FILM | 0.1MF | 5% | 50V |
| C812 | 1-136-495-11 | FILM | 0.068MF | 5% | 50V |
| C813 | 1-124-261-00 | ELECT | 10MF | 20% | 50V |
| C818 | 1-136-165-00 | FILM | 0.1MF | 5% | 50V |

<CONNECTOR>

| | | | |
|-------|----------------|-----------------------|--|
| CN801 | * 1-573-896-11 | SOCKET, CONNECTOR 12P | |
|-------|----------------|-----------------------|--|

<COIL>

| | | | |
|------|--------------|---------------|--|
| L801 | 1-410-470-11 | INDUCTOR 10UH | |
|------|--------------|---------------|--|



Les composants identifiés par une trame et une marque Δ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

The components identified by shading and mark Δ are critical for safety. Replace only with part number specified.

| REF. NO. | PART NO. | DESCRIPTION | REMARK | | | |
|------------|--------------|-------------|--------|----|------|--|
| <RESISTOR> | | | | | | |
| R802 | 1-249-435-11 | CARBON | 33K | 5% | 1/4W | |
| R803 | 1-247-863-91 | CARBON | 22K | 5% | 1/4W | |
| R804 | 1-215-454-00 | METAL | 24K | 1% | 1/4W | |
| R805 | 1-215-461-00 | METAL | 47K | 1% | 1/4W | |
| R808 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W | |
| | | | | | | |
| R812 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W | |
| R813 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W | |
| R815 | 1-247-843-11 | CARBON | 3.3K | 5% | 1/4W | |
| R816 | 1-249-418-11 | CARBON | 1.2K | 5% | 1/4W | |
| R817 | 1-249-418-11 | CARBON | 1.2K | 5% | 1/4W | |
| | | | | | | |
| R818 | 1-249-418-11 | CARBON | 1.2K | 5% | 1/4W | |
| R819 | 1-249-418-11 | CARBON | 1.2K | 5% | 1/4W | |
| R820 | 1-249-422-11 | CARBON | 2.7K | 5% | 1/4W | |

1-537-735-14 TERMINAL BOARD ASSY, I/O(A)

(Q BOARD)

2-990-241-02 HOLDER (A), PLUG
3-178-213-21 SCREW +P 3X10
7-685-135-19 SCREW +P 2.6X10 TYPE2 SLIT

<CAPACITOR>

| | | | | | | |
|-------|--------------|----------------------|-----|-----|--|--|
| C2401 | 1-163-111-00 | CERAMIC CHIP 56PF | 5% | 50V | | |
| C2402 | 1-104-396-11 | ELECT 10MF | 20% | 16V | | |
| C2403 | 1-104-396-11 | ELECT 10MF | 20% | 16V | | |
| C2404 | 1-104-396-11 | ELECT 10MF | 20% | 16V | | |
| C2405 | 1-124-589-11 | ELECT 47MF | 20% | 16V | | |
| C2406 | 1-104-396-11 | ELECT 10MF | 20% | 16V | | |
| C2407 | 1-104-396-11 | ELECT 10MF | 20% | 16V | | |
| C2408 | 1-104-396-11 | ELECT 10MF | 20% | 16V | | |
| C2409 | 1-124-234-00 | ELECT 22MF | 20% | 16V | | |
| C2410 | 1-163-033-91 | CERAMIC CHIP 0.022MF | | 50V | | |
| C2411 | 1-104-396-11 | ELECT 10MF | 20% | 16V | | |
| C2412 | 1-104-396-11 | ELECT 10MF | 20% | 16V | | |
| C2413 | 1-163-117-00 | CERAMIC CHIP 100PF | 5% | 50V | | |
| C2414 | 1-126-301-11 | ELECT 1MF | 20% | 50V | | |
| C2415 | 1-165-319-11 | CERAMIC CHIP 0.1MF | | 50V | | |
| C2416 | 1-124-589-11 | ELECT 47MF | 20% | 16V | | |
| C2418 | 1-163-033-91 | CERAMIC CHIP 0.022MF | | 50V | | |
| C2422 | 1-124-234-00 | ELECT 22MF | 20% | 16V | | |
| C2423 | 1-124-234-00 | ELECT 22MF | 20% | 16V | | |
| C2424 | 1-163-033-91 | CERAMIC CHIP 0.022MF | | 50V | | |
| C2425 | 1-124-589-11 | ELECT 47MF | 20% | 16V | | |
| C2426 | 1-124-589-11 | ELECT 47MF | 20% | 16V | | |
| C2427 | 1-124-234-00 | ELECT 22MF | 20% | 16V | | |
| C2428 | 1-163-033-91 | CERAMIC CHIP 0.022MF | | 50V | | |
| C2429 | 1-124-234-00 | ELECT 22MF | 20% | 16V | | |
| C2430 | 1-163-033-91 | CERAMIC CHIP 0.022MF | | 50V | | |
| C2431 | 1-124-234-00 | ELECT 22MF | 20% | 16V | | |
| C2432 | 1-124-234-00 | ELECT 22MF | 20% | 16V | | |
| C2433 | 1-163-033-91 | CERAMIC CHIP 0.022MF | | 50V | | |
| C2434 | 1-124-463-00 | ELECT 0.1MF | 20% | 50V | | |
| C2435 | 1-163-033-91 | CERAMIC CHIP 0.022MF | | 50V | | |
| C2436 | 1-124-234-00 | ELECT 22MF | 20% | 16V | | |
| C2437 | 1-163-033-91 | CERAMIC CHIP 0.022MF | | 50V | | |
| C2438 | 1-124-234-00 | ELECT 22MF | 20% | 16V | | |
| C2439 | 1-124-234-00 | ELECT 22MF | 20% | 16V | | |
| C2440 | 1-163-033-91 | CERAMIC CHIP 0.022MF | | 50V | | |
| C2441 | 1-124-234-00 | ELECT 22MF | 20% | 16V | | |
| C2442 | 1-124-234-00 | ELECT 22MF | 20% | 16V | | |
| C2443 | 1-124-234-00 | ELECT 22MF | 20% | 16V | | |
| C2444 | 1-124-234-00 | ELECT 22MF | 20% | 16V | | |
| C2445 | 1-163-033-91 | CERAMIC CHIP 0.022MF | | 50V | | |
| C2446 | 1-163-033-91 | CERAMIC CHIP 0.022MF | | 50V | | |

| REF. NO. | PART NO. | DESCRIPTION | REMARK | | | |
|----------|--------------|--------------------|--------|-----|--|--|
| C2447 | 1-124-234-00 | ELECT 22MF | 20% | 16V | | |
| C2448 | 1-124-234-00 | ELECT 22MF | 20% | 16V | | |
| C2449 | 1-124-234-00 | ELECT 22MF | 20% | 16V | | |
| C2450 | 1-124-234-00 | ELECT 22MF | 20% | 16V | | |
| C2451 | 1-124-589-11 | ELECT 47MF | 20% | 16V | | |
| C2452 | 1-124-589-11 | ELECT 47MF | 20% | 16V | | |
| C2454 | 1-126-163-11 | ELECT 4.7MF | 20% | 25V | | |
| C2461 | 1-165-319-11 | CERAMIC CHIP 0.1MF | | 50V | | |
| C2462 | 1-165-319-11 | CERAMIC CHIP 0.1MF | | 50V | | |
| C2463 | 1-165-319-11 | CERAMIC CHIP 0.1MF | | 50V | | |
| C2464 | 1-165-319-11 | CERAMIC CHIP 0.1MF | | 50V | | |
| C2465 | 1-165-319-11 | CERAMIC CHIP 0.1MF | | 50V | | |
| C2466 | 1-165-319-11 | CERAMIC CHIP 0.1MF | | 50V | | |
| C2467 | 1-165-319-11 | CERAMIC CHIP 0.1MF | | 50V | | |
| C2468 | 1-165-319-11 | CERAMIC CHIP 0.1MF | | 50V | | |
| C2469 | 1-165-319-11 | CERAMIC CHIP 0.1MF | | 50V | | |
| C2470 | 1-165-319-11 | CERAMIC CHIP 0.1MF | | 50V | | |

<CONNECTOR>

| | | | | | | |
|--------|-----------------------|----------------------------|--|--|--|--|
| CN306 | 1-564-526-11 | PLUG, CONNECTOR 11P | | | | |
| CN307 | 1-564-522-11 | PLUG, CONNECTOR 7P | | | | |
| CN308 | 1-564-519-11 | PLUG, CONNECTOR 4P | | | | |
| CN2401 | Δ 1-251-263-11 | INLET, AC | | | | |
| CN2402 | 1-565-167-12 | TERMINAL, (S) (WITH SW) 4P | | | | |
| CN2403 | 1-569-578-11 | TERMINAL, S (WITH SW) | | | | |
| CN2404 | 1-764-872-11 | CONNECTOR, MULTI 20P | | | | |

<DIODE>

| | | | | | | |
|-------|--------------|-----------------|--|--|--|--|
| D2402 | 8-719-016-74 | DIODE 1SS352 | | | | |
| D2404 | 8-719-800-76 | DIODE 1SS226 | | | | |
| D2405 | 8-719-800-76 | DIODE 1SS226 | | | | |
| D2406 | 8-719-800-76 | DIODE 1SS226 | | | | |
| D2407 | 8-719-800-76 | DIODE 1SS226 | | | | |
| D2408 | 8-719-800-76 | DIODE 1SS226 | | | | |
| D2409 | 8-719-800-76 | DIODE 1SS226 | | | | |
| D2410 | 8-719-800-76 | DIODE 1SS226 | | | | |
| D2411 | 8-719-800-76 | DIODE 1SS226 | | | | |
| D2415 | 8-719-800-76 | DIODE 1SS226 | | | | |
| D2416 | 8-719-800-76 | DIODE 1SS226 | | | | |
| D2417 | 8-719-800-76 | DIODE 1SS226 | | | | |
| D2418 | 8-719-800-76 | DIODE 1SS226 | | | | |
| D2420 | 8-719-037-53 | DIODE RD27SB-T1 | | | | |
| D2421 | 8-719-037-53 | DIODE RD27SB-T1 | | | | |
| D2422 | 8-719-037-53 | DIODE RD27SB-T1 | | | | |
| D2423 | 8-719-037-53 | DIODE RD27SB-T1 | | | | |

<IC>

| | | | | | | |
|--------|--------------|-----------------|--|--|--|--|
| IC2401 | 8-759-509-71 | IC XRU4021BF-E2 | | | | |
| IC2402 | 8-759-509-71 | IC XRU4021BF-E2 | | | | |
| IC2403 | 8-759-287-89 | IC MM1113XFF | | | | |
| IC2404 | 8-759-084-76 | IC MM1111XFF | | | | |
| IC2405 | 8-759-287-89 | IC MM1113XFF | | | | |

<JACK>

| | | | | | | |
|-------|--------------|--------------------------|--|--|--|--|
| J2401 | 1-562-261-71 | CONNECTOR, COAXIAL (BNC) | | | | |
| J2402 | 1-766-738-11 | BNC (WITH SW) | | | | |
| J2403 | 1-562-261-71 | CONNECTOR, COAXIAL (BNC) | | | | |
| J2404 | 1-766-738-11 | BNC (WITH SW) | | | | |
| J2405 | 1-562-261-71 | CONNECTOR, COAXIAL (BNC) | | | | |
| J2406 | 1-766-738-11 | BNC (WITH SW) | | | | |
| J2407 | 1-562-261-71 | CONNECTOR, COAXIAL (BNC) | | | | |
| J2408 | 1-766-738-11 | BNC (WITH SW) | | | | |
| J2409 | 1-562-261-71 | CONNECTOR, COAXIAL (BNC) | | | | |
| J2410 | 1-766-738-11 | BNC (WITH SW) | | | | |
| J2411 | 1-562-261-71 | CONNECTOR, COAXIAL (BNC) | | | | |
| J2412 | 1-766-738-11 | BNC (WITH SW) | | | | |



| REF. NO. | PART NO. | DESCRIPTION | REMARK |
|----------|--------------|------------------------|--------|
| J2413 | 1-507-802-41 | JACK, PIN (MOUNT TYPE) | |
| J2414 | 1-507-802-41 | JACK, PIN (MOUNT TYPE) | |
| J2415 | 1-507-802-41 | JACK, PIN (MOUNT TYPE) | |
| J2416 | 1-507-802-41 | JACK, PIN (MOUNT TYPE) | |
| J2417 | 1-507-802-41 | JACK, PIN (MOUNT TYPE) | |
| J2418 | 1-507-802-41 | JACK, PIN (MOUNT TYPE) | |
| J2419 | 1-507-802-41 | JACK, PIN (MOUNT TYPE) | |
| J2420 | 1-507-802-41 | JACK, PIN (MOUNT TYPE) | |

<CHIP CONDUCTOR>

| | | | |
|------|--------------|-----------------|--|
| JR1 | 1-216-295-91 | CONDUCTOR, CHIP | |
| JR4 | 1-216-295-91 | CONDUCTOR, CHIP | |
| JR5 | 1-216-295-91 | CONDUCTOR, CHIP | |
| JR7 | 1-216-295-91 | CONDUCTOR, CHIP | |
| JR12 | 1-216-295-91 | CONDUCTOR, CHIP | |
| JR13 | 1-216-295-91 | CONDUCTOR, CHIP | |
| JR14 | 1-216-295-91 | CONDUCTOR, CHIP | |
| JR15 | 1-216-295-91 | CONDUCTOR, CHIP | |
| JR16 | 1-216-295-91 | CONDUCTOR, CHIP | |
| JR17 | 1-216-295-91 | CONDUCTOR, CHIP | |
| JR19 | 1-216-295-91 | CONDUCTOR, CHIP | |
| JR20 | 1-216-295-91 | CONDUCTOR, CHIP | |
| JR21 | 1-216-295-91 | CONDUCTOR, CHIP | |
| JR23 | 1-216-295-91 | CONDUCTOR, CHIP | |
| JR30 | 1-216-295-91 | CONDUCTOR, CHIP | |
| JR34 | 1-216-295-91 | CONDUCTOR, CHIP | |
| JR35 | 1-216-295-91 | CONDUCTOR, CHIP | |
| JR40 | 1-216-295-91 | CONDUCTOR, CHIP | |
| JR41 | 1-216-295-91 | CONDUCTOR, CHIP | |
| JR43 | 1-216-295-91 | CONDUCTOR, CHIP | |
| JR46 | 1-216-295-91 | CONDUCTOR, CHIP | |
| JR47 | 1-216-295-91 | CONDUCTOR, CHIP | |
| JR48 | 1-216-295-91 | CONDUCTOR, CHIP | |
| JR52 | 1-216-295-91 | CONDUCTOR, CHIP | |
| JR60 | 1-216-295-91 | CONDUCTOR, CHIP | |

<TRANSISTOR>

| | | | |
|-------|--------------|-------------------------|--|
| Q2401 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | |
| Q2402 | 8-729-216-22 | TRANSISTOR 2SA1162-G | |
| Q2403 | 8-729-216-22 | TRANSISTOR 2SA1162-G | |
| Q2404 | 8-729-216-22 | TRANSISTOR 2SA1162-G | |
| Q2405 | 8-729-216-22 | TRANSISTOR 2SA1162-G | |
| Q2408 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | |
| Q2409 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | |
| Q2410 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | |
| Q2411 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | |
| Q2412 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | |
| Q2414 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | |
| Q2415 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | |
| Q2416 | 8-729-216-22 | TRANSISTOR 2SA1162-G | |
| Q2417 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | |

<RESISTOR>

| | | | | |
|-------|--------------|-----------------|----|-------|
| R2401 | 1-216-073-00 | METAL GLAZE 10K | 5% | 1/10W |
| R2402 | 1-216-043-91 | METAL GLAZE 560 | 5% | 1/10W |
| R2404 | 1-216-089-91 | METAL GLAZE 47K | 5% | 1/10W |
| R2405 | 1-216-073-00 | METAL GLAZE 10K | 5% | 1/10W |
| R2406 | 1-216-089-91 | METAL GLAZE 47K | 5% | 1/10W |
| R2407 | 1-216-073-00 | METAL GLAZE 10K | 5% | 1/10W |
| R2408 | 1-216-089-91 | METAL GLAZE 47K | 5% | 1/10W |
| R2409 | 1-216-073-00 | METAL GLAZE 10K | 5% | 1/10W |
| R2410 | 1-216-089-91 | METAL GLAZE 47K | 5% | 1/10W |
| R2411 | 1-216-073-00 | METAL GLAZE 10K | 5% | 1/10W |
| R2412 | 1-216-089-91 | METAL GLAZE 47K | 5% | 1/10W |
| R2413 | 1-216-073-00 | METAL GLAZE 10K | 5% | 1/10W |
| R2414 | 1-216-089-91 | METAL GLAZE 47K | 5% | 1/10W |
| R2415 | 1-216-073-00 | METAL GLAZE 10K | 5% | 1/10W |
| R2416 | 1-216-089-91 | METAL GLAZE 47K | 5% | 1/10W |

| REF. NO. | PART NO. | DESCRIPTION | REMARK |
|----------|--------------|------------------|----------|
| R2417 | 1-216-073-00 | METAL GLAZE 10K | 5% 1/10W |
| R2418 | 1-216-089-91 | METAL GLAZE 47K | 5% 1/10W |
| R2419 | 1-216-073-00 | METAL GLAZE 10K | 5% 1/10W |
| R2420 | 1-216-089-91 | METAL GLAZE 47K | 5% 1/10W |
| R2421 | 1-216-073-00 | METAL GLAZE 10K | 5% 1/10W |
| R2422 | 1-216-089-91 | METAL GLAZE 47K | 5% 1/10W |
| R2423 | 1-216-073-00 | METAL GLAZE 10K | 5% 1/10W |
| R2424 | 1-216-089-91 | METAL GLAZE 47K | 5% 1/10W |
| R2425 | 1-216-073-00 | METAL GLAZE 10K | 5% 1/10W |
| R2426 | 1-214-775-00 | METAL 82K | 1% 1/4W |
| R2427 | 1-216-097-91 | METAL GLAZE 100K | 5% 1/10W |
| R2428 | 1-216-105-91 | METAL GLAZE 220K | 5% 1/10W |
| R2429 | 1-216-025-91 | METAL GLAZE 100 | 5% 1/10W |
| R2430 | 1-216-115-00 | METAL GLAZE 560K | 5% 1/10W |
| R2431 | 1-216-077-00 | METAL GLAZE 15K | 5% 1/10W |
| R2432 | 1-214-775-00 | METAL 82K | 1% 1/4W |
| R2433 | 1-216-097-91 | METAL GLAZE 100K | 5% 1/10W |
| R2434 | 1-216-105-91 | METAL GLAZE 220K | 5% 1/10W |
| R2435 | 1-216-025-91 | METAL GLAZE 100 | 5% 1/10W |
| R2436 | 1-216-115-00 | METAL GLAZE 560K | 5% 1/10W |
| R2437 | 1-216-295-91 | CONDUCTOR, CHIP | |
| R2438 | 1-216-077-00 | METAL GLAZE 15K | 5% 1/10W |
| R2439 | 1-214-775-00 | METAL 82K | 1% 1/4W |
| R2440 | 1-216-105-91 | METAL GLAZE 220K | 5% 1/10W |
| R2441 | 1-216-097-91 | METAL GLAZE 100K | 5% 1/10W |
| R2442 | 1-216-025-91 | METAL GLAZE 100 | 5% 1/10W |
| R2443 | 1-216-115-00 | METAL GLAZE 560K | 5% 1/10W |
| R2444 | 1-216-077-00 | METAL GLAZE 15K | 5% 1/10W |
| R2446 | 1-214-775-00 | METAL 82K | 1% 1/4W |
| R2447 | 1-216-105-91 | METAL GLAZE 220K | 5% 1/10W |
| R2448 | 1-216-097-91 | METAL GLAZE 100K | 5% 1/10W |
| R2449 | 1-216-025-91 | METAL GLAZE 100 | 5% 1/10W |
| R2450 | 1-216-115-00 | METAL GLAZE 560K | 5% 1/10W |
| R2451 | 1-216-077-00 | METAL GLAZE 15K | 5% 1/10W |
| R2452 | 1-216-089-91 | METAL GLAZE 47K | 5% 1/10W |
| R2453 | 1-216-073-00 | METAL GLAZE 10K | 5% 1/10W |
| R2455 | 2-216-113-00 | METAL GLAZE 470K | 5% 1/10W |
| R2458 | 1-216-295-91 | CONDUCTOR, CHIP | |
| R2463 | 1-216-085-00 | METAL GLAZE 33K | 5% 1/10W |
| R2465 | 1-216-073-00 | METAL GLAZE 10K | 5% 1/10W |
| R2466 | 1-216-073-00 | METAL GLAZE 10K | 5% 1/10W |
| R2467 | 1-216-073-00 | METAL GLAZE 10K | 5% 1/10W |
| R2470 | 1-214-702-00 | METAL 75 | 1% 1/4W |
| R2471 | 1-216-093-00 | METAL GLAZE 68K | 5% 1/10W |
| R2472 | 1-216-063-91 | METAL GLAZE 3.9K | 5% 1/10W |
| R2473 | 1-216-037-00 | METAL GLAZE 330 | 5% 1/10W |
| R2474 | 1-216-049-91 | METAL GLAZE 1K | 5% 1/10W |
| R2475 | 1-216-091-00 | METAL GLAZE 56K | 5% 1/10W |
| R2476 | 1-214-702-00 | METAL 75 | 10% 1/4W |
| R2477 | 1-216-091-00 | METAL GLAZE 56K | 5% 1/10W |
| R2478 | 1-216-063-91 | METAL GLAZE 3.9K | 5% 1/10W |
| R2479 | 1-216-027-00 | METAL GLAZE 120 | 5% 1/10W |
| R2480 | 1-216-049-91 | METAL GLAZE 1K | 5% 1/10W |
| R2481 | 1-216-093-00 | METAL GLAZE 68K | 5% 1/10W |
| R2482 | 1-214-702-00 | METAL 75 | 1% 1/4W |
| R2483 | 1-216-091-00 | METAL GLAZE 56K | 5% 1/10W |
| R2484 | 1-216-027-00 | METAL GLAZE 120 | 5% 1/10W |
| R2485 | 1-216-063-91 | METAL GLAZE 3.9K | 5% 1/10W |
| R2486 | 1-216-049-91 | METAL GLAZE 1K | 5% 1/10W |
| R2487 | 1-216-093-00 | METAL GLAZE 68K | 5% 1/10W |
| R2488 | 1-214-702-00 | METAL 75 | 1% 1/4W |
| R2489 | 1-216-091-00 | METAL GLAZE 56K | 5% 1/10W |
| R2490 | 1-216-063-91 | METAL GLAZE 3.9K | 5% 1/10W |
| R2491 | 1-216-027-00 | METAL GLAZE 120 | 5% 1/10W |
| R2492 | 1-216-049-91 | METAL GLAZE 1K | 5% 1/10W |
| R2493 | 1-216-093-00 | METAL GLAZE 68K | 5% 1/10W |
| R2494 | 1-214-702-00 | METAL 75 | 1% 1/4W |
| R2495 | 1-214-702-00 | METAL 75 | 1% 1/4W |
| R2496 | 1-216-091-00 | METAL GLAZE 56K | 5% 1/10W |
| R2497 | 1-216-063-91 | METAL GLAZE 3.9K | 5% 1/10W |

**PVM-14M2U/14M4U/14M2E
PVM-14M4E/14M2A/14M4A**



| REF. NO. | PART NO. | DESCRIPTION | REMARK |
|----------|--------------|------------------|----------|
| R2498 | 1-216-037-00 | METAL GLAZE 330 | 5% 1/10W |
| R2499 | 1-216-049-91 | METAL GLAZE 1K | 5% 1/10W |
| R3400 | 1-216-093-00 | METAL GLAZE 68K | 5% 1/10W |
| R3402 | 1-216-091-00 | METAL GLAZE 56K | 5% 1/10W |
| R3404 | 1-216-063-91 | METAL GLAZE 3.9K | 5% 1/10W |
| R3405 | 1-216-037-00 | METAL GLAZE 330 | 5% 1/10W |
| R3406 | 1-216-049-91 | METAL GLAZE 1K | 5% 1/10W |
| R3408 | 1-216-093-00 | METAL GLAZE 68K | 5% 1/10W |
| R3409 | 1-214-702-00 | METAL 75 | 1% 1/4W |
| R3410 | 1-216-091-00 | METAL GLAZE 56K | 5% 1/10W |
| R3411 | 1-216-063-91 | METAL GLAZE 3.9K | 5% 1/10W |
| R3412 | 1-216-037-00 | METAL GLAZE 330 | 5% 1/10W |
| R3413 | 1-216-073-00 | METAL GLAZE 10K | 5% 1/10W |
| R3414 | 1-216-073-00 | METAL GLAZE 10K | 5% 1/10W |
| R3416 | 1-216-049-91 | METAL GLAZE 1K | 5% 1/10W |
| R3417 | 1-216-093-00 | METAL GLAZE 68K | 5% 1/10W |
| R3418 | 1-214-702-00 | METAL 75 | 1% 1/4W |
| R3419 | 1-216-037-00 | METAL GLAZE 330 | 5% 1/10W |
| R3420 | 1-216-023-00 | METAL GLAZE 82 | 5% 1/10W |
| R3421 | 1-216-689-11 | METAL GLAZE 39K | 5% 1/10W |
| R3422 | 1-216-049-91 | METAL GLAZE 1K | 5% 1/10W |
| R3423 | 1-216-083-00 | METAL GLAZE 27K | 5% 1/10W |
| R3424 | 1-216-049-91 | METAL GLAZE 1K | 5% 1/10W |
| R3425 | 1-216-061-00 | METAL GLAZE 3.3K | 5% 1/10W |
| R3426 | 1-216-099-00 | METAL GLAZE 120 | 5% 1/10W |
| R3427 | 1-216-089-91 | METAL GLAZE 47K | 5% 1/10W |
| R3428 | 1-216-073-00 | METAL GLAZE 10K | 5% 1/10W |
| R3429 | 1-216-089-91 | METAL GLAZE 47K | 5% 1/10W |
| R3430 | 1-216-073-00 | METAL GLAZE 10K | 5% 1/10W |
| R3431 | 1-216-089-91 | METAL GLAZE 47K | 5% 1/10W |
| R3432 | 1-216-073-00 | METAL GLAZE 10K | 5% 1/10W |
| R3435 | 1-216-045-91 | METAL GLAZE 680 | 5% 1/10W |
| R3436 | 1-216-045-91 | METAL GLAZE 680 | 5% 1/10W |
| R3437 | 1-216-045-91 | METAL GLAZE 680 | 5% 1/10W |
| R3438 | 1-216-045-91 | METAL GLAZE 680 | 5% 1/10W |
| R3439 | 1-216-045-91 | METAL GLAZE 680 | 5% 1/10W |
| <SWITCH> | | | |
| S2401 | 1-570-598-11 | SWITCH, DIP | |

Les composants identifiés par
une trame et une marque Δ
sont critiques pour la sécurité.
Ne les remplacer que par une
pièce portant le numéro spécifié.

The components identified by
shading and mark Δ are criti-
cal for safety.
Replace only with part number
specified.

| REF. NO. | PART NO. | DESCRIPTION | REMARK |
|--|----------|--------------------------------------|--------------------|
| MISCELLANEOUS ***** | | | |
| Δ 1-223-417-11 | | RESISTOR ASSY (HIGH-VOLTAGE) | (14M4U/E/A) |
| Δ 1-426-442-21 | | COIL, DEMAGNETIZATION | |
| Δ 1-451-457-11 | | DEFLECTION YOKE (14M4U/E/A) | |
| 1-452-032-00 | | MAGNET, DISK ; 10mm ϕ | |
| 1-452-094-00 | | MAGNET, ROTATABLE DISK ; 15mm ϕ | |
| 1-544-063-12 | | SPEAKER | |
| Δ 1-576-231-11 | | FUSE (H.B.C.) 4A/250V | |
| Δ 1-590-910-11 | | CORD SET, POWER (14M2E/A, 14M4E/A) | |
| 1-765-268-11 | | CORD, CONNECTION | |
| Δ 1-765-718-11 | | CORD SET, POWER (14M2U/14M4U) | |
| Δ 8-451-472-11 | | DEFLECTION YOKE (14M2U/E/A) | |
| Δ 8-738-333-05 | | PICTURE TUBE 14MT1 (L-BVM, PVM) | (14M4E/A) |
| Δ 8-738-335-05 | | PICTURE TUBE 14MT3 (L-BVM, PVM) | (14M4U) |
| Δ 8-738-342-05 | | PICTURE TUBE 14MG (DARK) (14M2U/E/A) | |
| ***** | | | |
| ACCESSORIES AND PACKING MATERIALS ***** | | | |
| 3-170-078-01 | | HOLDER (B), PLUG | |
| 3-859-663-12 | | MANUAL, INSTRUCTION | (14M2E/14M4E only) |
| 3-859-663-22 | | MANUAL, INSTRUCTION | |
| 4-044-040-03 | | LABEL, TALLY | |
| * 4-058-820-01 | | INDIVIDUAL CARTON | |
| * 4-381-155-01 | | BAG, PROTECTION | |

Sony Corporation

Image & Sound Communication Company

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